

Alessandro Bemporad  
**CURRICULUM VITÆ**  
(January 2014)

• **PERSONAL DETAILS**

FIRST NAME: Alessandro                      FAMILY NAME: Bemporad  
PLACE AND DATE OF BIRTH: Firenze (Italy); January 21<sup>st</sup>, 1976  
NATIONALITY: Italian                      MARITAL STATUS: Married                      SEX: Male  
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• **CURRICULUM STUDIORUM**

**09/2002:** Bachelor Degree in Physics (Specialization: Astronomy), University of Florence, Italy. **Thesis:** “Determination of Physical Parameters of Coronal Streamers”; **supervisors:** Dr. G. Poletto ([poletto@arcetri.astro.it](mailto:poletto@arcetri.astro.it)) and Dr. M. Romoli ([romoli@arcetri.astro.it](mailto:romoli@arcetri.astro.it)).

**23/02/2006: PhD in Astronomy** at the Arcetri Astrophysical Observatory, Florence, Italy. **Thesis:** “UV Spectroscopy of Coronal Plasmas and its application to different structures”; **supervisor:** Dr. G. Poletto ([poletto@arcetri.astro.it](mailto:poletto@arcetri.astro.it)).

**05/2007:** qualification for Mathematics and Physics Teaching at High Schools (after a 2 years Master).

**01/02/2006 - 31/08/2007:** Post-doc position at the INAF - Arcetri Astrophysical Observatory, Largo E. Fermi 5, 50125 Firenze - Italy.

**01/09/2007 - 14/06/2011:** Post-doc position at the INAF - Turin Astronomical Observatory, via Osservatorio 20, 10025 Pino Torinese (TO) - Italy.

• **PRESENT POSITION**

**Since June 15, 2011:** Research Astronomer (permanent) at the INAF - Turin Astronomical Observatory.

• **RESEARCH FIELD**

**Solar Physics:** XUV Spectroscopy of the Solar Corona and Solar Wind; determination of physical parameters of Coronal Streamers and Coronal Mass Ejections; comparison between plasma parameters derived via *remote-sensing* techniques and *in situ* parameters measured by Ulysses instruments; Earth – Sun connections and Space Weather; XUV Spectroscopy of Sungrazing Comets and determination of comet parameters; SOHO/UVCS data reduction and analysis with the Data Analysis Software (DAS), SOHO/LASCO data reduction with IDL and the Solar Software (SSW). Stereoscopic reconstructions of prominences with data acquired by the STEREO/EUVI telescopes. Characterization of shocks driven by CMEs. Determination of coronal magnetic field involved in CME-driven shocks. Off-limb observations of the low corona with Hinode/EIS spectrometer.

**Computing:** *Operating Systems:* Unix, Windows. *Languages:* IDL, Fortran, Latex, HTML. *Applications:* Photoshop, Office Package. *Data Reduction:* UVCS Data Analysis Software, Solar Software, Origin.

- **PRIZES AND AWARDS**

**July 2009: Winner of the “3rd JOSO (Joint Organization for Solar Observations) PRIZE”** given to a young Solar Physicist for an outstanding paper. The selected winning paper was titled “*Spectroscopic detection of turbulence in post-CME Current Sheets*”, ApJ, 689, 572, 2008.

**December 2013: Winner of the “Stefan Hepites PRIZE”** given by the Academia Romana, Bucharest, Romania given for merits in the study of “Genesis and Evolution of the Coronal Mass Ejections”.

- **TEACHING EXPERIENCE**

**Temporary Lecturer (A.A. 2012-2013 and 2013-2014)** at the Physics Department of the University of Turin (ind.: FIS/05 Astronomia e Astrofisica) for the Course “*Elements of Heliophysics and Space Weather*” (48 hours, 6 credits);

**Supervisor** of a 2 years post-doc (Dr. R. Susino) within the European Project SWIFF “*Space Weather Integrated Forecasting Framework*” (10/2011-11/2013), University of Turin, Italy;

**Supervisor** of a Master Thesis in Physics in 2013 (Dott. M. Morra) titled “*Studio Spettroscopico dei Moti non termici del Plasma Coronale*”, University of Turin, Italy;

**Supervisor** of a Master (Erasmus) Thesis in Physics in 2013 (Dott. A. Parashiv) titled “*Characterization of Polar Jets in the Solar Corona with HINODE/XRT and SOHO data*”, Univ. of Bucharest, Romania.

**Member of the Jury** for the Ph.D. Degree Thesis 2011 (Dr. A. Soenen) titled “*Numerical Modelling of the Initiation of Coronal Mass Ejections*”, KU Leuven, Belgium;

**Supervisor** of a Degree Thesis in Physics in 2009 (Dott. M. Calabrese) titled “*Determinazione di Parametri Fisici del Plasma Solare in un Buco Coronale da analisi di Dati Spettroscopici HINODE/EIS*”, University of Turin, Italy.

- **ROLES OF RESPONSIBILITY**

**Co-I** of the SWIFF Project (<http://www.swiff.eu/> founded by ERC February 2011 – January 2014);

**Co-I** of the METIS Coronagraph for the future ESA – Solar Orbiter Mission (selected in 2009);

**Co-I** for the ASPIICS Coronagraph for the future ESA – PROBA-3 Mission (selected in 2010);

**Member** of a NASA-Heliophysics Guest Investigator Program Review Panel (February 2012);

**Member** of an ISSI-International Team on “Post-CME Current Sheets” (2006-2008, PI: Dr. G. Poletto).

**Member** of an ISSI-International Team on “Coronal Magnetometry: Building Tools for Discovery” (2013-2015, PI: Dr. S. Gibson);

- **ORGANIZATION OF CONFERENCES and MEETINGS**

**Responsible for the organization of Internal Seminars** at INAF-Turin Astrophysical Observatory (since August 2013)

**Chair of SOC and LOC** for the “Second Annual SWIFF Meeting”, January 14-16, 2013, Turin (Italy);

**Main Organizer** of 3 Scientific Sessions for the 38<sup>th</sup> (2010), 39<sup>th</sup> (2012) and for the next 40<sup>th</sup> (2014) COSPAR Meetings;

**SOC Member** for the “Riunione della Comunità Scientifica ed Eliosferica Italiana”, Catania (Italy), September 4-6, 2013.

**LOC Member** of the “3<sup>rd</sup> Solar Orbiter Workshop”, Sorrento (Italy), May 25-29, 2009.

- **FOREIGN EXPERIENCES**

**October, 1999 – March, 2000:** Erasmus Project, undergraduate student at Université de Provence, Aix-Marseille I, France

**August 2004, April – June, 2005:** visiting scientist at the Harvard-Smithsonian CFA of Cambridge (MA, USA) for scientific collaboration with Dr. J. Raymond ([raymond@cfa.harvard.edu](mailto:raymond@cfa.harvard.edu)).

**February 2010 – July 2011:** several visits at the CPA of the Leuven University (Belgium) for scientific collaborations with Drs. G. Lapenta ([giovanni.lapenta@wis.kuleuven.be](mailto:giovanni.lapenta@wis.kuleuven.be)) and S. Poedts ([stefaan.poedts@wis.kuleuven.be](mailto:stefaan.poedts@wis.kuleuven.be)).

## • INVITED TALKS / PRESENTATIONS

- 1) **Invited Review:** “UV Observations of Sungrazing comets with the SOHO/UVCS Instrument”, given at “AOGS 2nd Annual Meeting 2005”, Singapore, June 20 – 24, 2005.
- 2) **Invited Talk:** “Are CMEs globally affecting the Corona by Reconnections occurring on different scales?”, given at “37th COSPAR Meeting”, Montréal (Canada), 13 – 20 July, 2008.
- 3) **Invited Young Scientist Lecture:** “Multispacecraft Observations of a Prominence Eruption”, given at “STEREO-3/SOHO-22 Workshop”, Bournemouth, Dorset (UK), April 27 – May 1, 2009.
- 4) **Invited Lecture given by the JOSO Prize Winner:** “Multiple small-scale magnetic reconnections inside post-CME Current Sheets: a possible solution to inconsistencies between theory and observations”, given at “4th Central European Solar Physics Meeting”, Bairisch Koellendorf (Austria), Sept. 30-Oct. 2, 2009.
- 5) **Invited Talk:** “Observations of Coronal Mass Ejections in the Outer Corona”, given at “5<sup>th</sup> Solar Orbiter Workshop”, Bruges (Belgium), September 10-14, 2012.
- 6) **Invited Talk:** “Observations of Solar Storms in the Outer Corona”, given at the Conference “Solar and Heliospheric Influences in the Geospace”, Bucharest (Romania), October 1-5, 2012.

## • INVITED SEMINARS

- 1) **Invited Seminar:** “Solar Mass Ejections: what we learnt from Coronal Spectroscopy”, held at Center for Plasma Astrophysics (CPA), University of Leuven, Leuven (Belgium), April 22, 2010
- 2) **Invited Seminar:** “Solar Mass Ejections: what we learnt from Coronal Spectroscopy”, held at Indian Institute for Astrophysics (IIA), Bangalore (India), July 24, 2012
- 3) **Invited Seminar:** “Electro-optical Spectro-polarimeter for Ground- and Space-based Solar Coronagraphy”, Instituto de Astrofísica de Canarias (IAC), Tenerife (Spagna), November 28, 2012

## • OUTREACH SEMINARS

- 1) “Il Sole e le Relazioni Sole-Terra”, Liceo Machiavelli, Firenze (Italy), April 4, 2006
- 2) Presentazione del Programma Didattico “Students around the World through IHY”, licei della provincia di Torino, April 13, 2008
- 3) “Il Sole e le Relazioni Sole-Terra”, Planetario di Torino, Pino Torinese (Italy), April 21, 2009
- 4) “L’astronomo? Sa leggere il futuro”, Festival della Scienza, Genova (Italy), October 24, 2011
- 5) “Sole e Tempeste Solari verso il Massimo di Attività”, Osservatorio Astronomico G.D. Cassini, Perinaldo (Italy), April 6, 2013

## • SCHOOLS & WORKSHOPS

During his career he attended 1 National School of Astrophysics (Isola d’Elba, Italy, May 11-17, 2003), 5 International Schools and Summer Colloquia (NCAR, Boulder, USA, May 31 – June 10, 2005; Montegufoni, Italy, October 3 -7, 2005; L’Aquila, Italy, March 26 - April 1, 2006; Les Diablerets, Switzerland, March 23-28, 2009; Turin, Italy, October 21-24, 2009) and 2 International Workshops (IAS Paris Orsay, France, November 13 – 15, 2007; Paris Observatory, France, April 19 – 24, 2008).

## • CONFERENCES & MEETINGS

During his career he attended a total of 31 National and International Meeting (listed below), where he presented his scientific results with 6 invited talks, 24 contributed talks and 14 poster presentations.

- 1) “III Meeting on the Italian Solar Research”, Isole Eolie (Italy), September 30 - October 4, 2002 (**1 talk**).
- 2) “ISCS Symposium 2003”, Tatranska Lomnica (Slovak Republic), June 23-28, 2003 (**1 poster**).
- 3) “XXXV COSPAR Meeting”, Paris (France), June 18-25, 2004 (**1 poster presentation**).
- 4) “IAU 226: Coronal & Stellar Mass Ejections”, Beijing (China), September 13-17, 2004 (**1 talk**).
- 5) “AOGS 2<sup>nd</sup> Annual Meeting 2005”, Singapore, June 20 – 24, 2005 (**1 invited talk**).
- 6) “11<sup>th</sup> Solar Physics Meeting”, Leuven (Belgium), Sept. 12 – 16, 2005 (**1 poster presentation**).
- 7) “IV Convegno della Ricerca Italiana in Fisica Solare”, Trieste (Italy), October 18 – 20, 2005 (**1 talk**).
- 8) “SOHO 17: 10 years of SOHO and beyond”, Giardini Naxos (Italy), May 7-12, 2006 (**1 talk**).
- 9) “LI Congresso della SAIT”, Firenze (Italy), April 17 - 20, 2007 (**1 talk**).
- 10) “SOHO 20 Meeting”, Ghent (Belgium), August 27 – 31, 2007 (**1 talk**).
- 11) ISSI International Team “Understanding the Role of Current Sheets in the Solar Eruptive Phenomena”, ISSI, Bern (Switzerland), October 23 – 26, 2006 (1<sup>st</sup> meeting), September 3 – 4, 2007 (2<sup>nd</sup> meeting) and March 3 – 6, 2008 (3<sup>rd</sup> and last meeting – **3 talks**).
- 12) “37<sup>th</sup> COSPAR Meeting”, Montréal (Canada), 13 – 20 July, 2008 (**1 invited talk and 2 poster pres.**).
- 13) “2<sup>nd</sup> Hinode Science Meeting”, Boulder (USA), Sept. 29 – October 3, 2008 (**1 talk**).
- 14) “STEREO-3/SOHO-22 Workshop”, Bournemouth, Dorset (UK), April 27 – May 1, 2009 (**Invited Young Scientist Lecture and poster presentation**).
- 15) “3<sup>rd</sup> Solar Orbiter Workshop”, Sorrento (Italy), May 25 – 29, 2009 (**poster presentation**).
- 16) “Solar Wind 12”, Saint Malò (France), June 21 – 26, 2009.
- 17) “4<sup>th</sup> Central European Solar Physics Meeting”, Bairisch Koellendorf (Austria), Sept. 30-Oct. 2, 2009 (**Invited Lecture given as the winner of the JOSO Prize**).
- 18) “2<sup>nd</sup> IAGA Meeting”, Cairo (Egypt), December 4 – 12, 2009 (**1 talk, 1 poster presentation**).
- 19) “38<sup>th</sup> COSPAR Meeting”, Bremen (Germany), 18 – 22 July, 2010 (**1 talk and 1 poster pres.**).
- 20) “4<sup>th</sup> Hinode Science Meeting”, Mondello (Italy), October 11 – 15, 2010 (**1 poster presentation**).
- 21) “1<sup>st</sup> METIS Workshop”, Firenze (Italy), February 10 – 11, 2011 (**1 talk presentation**).
- 22) “4<sup>th</sup> Solar Orbiter Workshop”, Telluride (USA), March 27 – 31, 2011 (**1 talk presentation**).
- 23) “STEREO-4/SDO-2/SOHO-25 Meeting”, Kiel (Germany), July 25 – 29, 2011 (**1 talk, 1 poster**).
- 24) “39<sup>th</sup> COSPAR Meeting”, Mysore (India), 14 – 22 July, 2012 (**1 talk and 2 poster pres.**).
- 25) “5<sup>th</sup> Solar Orbiter Workshop”, Bruges (Belgium), September 10-14, 2012 (**1 invited talk + 2 posters**).
- 26) “Solar and Heliospheric Influences in the Geospace”, Bucharest (Romania), October 1-5, 2012 (**1 invited talk**).
- 27) “Arcetri 2012 Workshop on Plasma Astrophysics”, Florence (Italy), November 5-8, 2012 (**1 talk**).
- 28) “METIS 2<sup>nd</sup> Science & Technical Meeting”, Turin (Italy), December 12-13, 2012 (**1 talk**).
- 29) “2<sup>nd</sup> Annual SWIFF Meeting”, Turin (Italy), January 14-16, 2013 (**1 talk**).
- 30) “METIS 3<sup>rd</sup> Science & Technical Meeting”, Naples (Italy), October 15-17, 2013 (**2 talks**).
- 31) “Riunione della Comunità Scientifica Solare ed Eliosferica italiana 2013”, Catania (Italy), September 4-8, 2013 (**1 talk**).

## • LANGUAGES

**Italian** (native), **English** (very good), **French** (good).

## • REFEREED PUBLICATIONS (H index = 11)

- 1) “Characteristics of polar coronal hole jets”, Chandrashekhar K., **Bemporad A.**, Banerjee D., Gupta G. R., Teriaca L., A&A, 561, id.A104, 2014

- 2) “Plasma Heating in a Post Eruption Current Sheet: A Case Study Based on Ultraviolet, Soft, and Hard X-Ray Data”, Susino R., **Bemporad A.**, & Krucker S., *ApJ*, 777 (2), article id. 93, 2013
- 3) “Study of a Coronal Mass Ejection with SOHO/UVCS and STEREO data”, Susino R., **Bemporad A.**, Dolei S., Vourlidas A., *Adv. Space Res.*, 52 (5), 957, 2013
- 4) “Super- and sub-critical regions in shocks driven by radio-loud and radio-quiet CMEs”, **Bemporad A.** & Mancuso S., *Journ. of Adv. Res.*, 4 (3), 287, 2013
- 5) “SWIFF: Space Weather Integrated Forecasting Framework”, Lapenta G., Pierrard V., Keppens R., Markidis S., Poedts S., Šebek O., Trávníček P.M., Henri P., Califano F., Pegoraro F., Faganello M., Olshevsky V., Restante A., Nordlund A., Frederiksen J.T., Mackay D.H., Parnell C.E., **Bemporad A.**, Susino R. and Borremans K., *Journal of Space Weather and Space Climate*, 3, id.A05, 2013
- 6) “Study of Multiple Coronal Mass Ejections at Solar Minimum Conditions”, **Bemporad A.**, Zuccarello F.P., Jacobs C., Mierla M., Poedts S., *Sol. Phys.*, 281, 223, 2012.
- 7) “Spectroscopic Signature of Alfvén Waves Damping in a Polar Coronal Hole up to 0.4 Solar Radii”, **Bemporad A.** & Abbo L., *ApJ*, 751, 110, 2012.
- 8) “Solar magnetism eXplorer (SolmeX). Exploring the magnetic field in the upper atmosphere of our closest star”, Hardi P., Abbo L., Andretta V., Auchère F., **Bemporad A.**, and 34 coauthors, *Experimental Astronomy*, 33, 271, 2012.
- 9) “The Role of Streamers in the Deflection of Coronal Mass Ejections: Comparison between STEREO Three-dimensional Reconstructions and Numerical Simulations”, Zuccarello F. P., **Bemporad A.**, Jacobs C., Mierla M., Poedts S., Zuccarello, F., *ApJ*, 744, 66, 2012.
- 10) “Identification of Super- and Subcritical Regions in Shocks Driven by Coronal Mass Ejections”, **Bemporad A.** & Mancuso S., *ApJ*, 739, L64, 2012.
- 11) “Rotation of an erupting filament observed by STEREO EUVI and COR1 instruments”, **Bemporad A.**, Mierla M., Tripathi D., *A&A*, 531, id.A147, 2011.
- 12) “Prominence 3D reconstruction in the STEREO era: A review”, **Bemporad A.**, *Journ. of Atmosph. & Sol.-Terr. Phys.*, 73, 1117, 2011.
- 13) “Side Magnetic Reconnections Induced by Coronal Mass Ejections: Observations and Simulations”, **Bemporad A.**, Soenen A., Jacobs C., Landini F., Poedts, S., *ApJ*, 718, 251, 1010.
- 14) “First Complete Determination of Plasma Physical Parameters Across a Coronal Mass Ejection-driven Shock”, **Bemporad A.**, & Mancuso S., *ApJ*, 720, 130, 2010.
- 15) “Stereoscopic Reconstruction from STEREO/EUV Imagers Data of the Three-dimensional Shape and Expansion of an Erupting Prominence”, **Bemporad A.**, *ApJ*, 701, 298, 2009.
- 16) “Multispacecraft observations of a Prominence Eruption”, **Bemporad A.**, Del Zanna G., Andretta V., Poletto G., Magri M., *Ann. Geophys.*, 27, 3841, 2009.
- 17) “The role of lateral magnetic reconnection in solar eruptive events”, Soenen A., **Bemporad A.**, Jacobs C., Poedts S., *Ann. Geophys.*, 27, 3941, 2009.
- 18) “Interpretation of the SOHO/UVCS Observations of two CME-driven Shocks”, Mancuso S. & **Bemporad A.**, *Adv. Space Res.*, 44, 451, 2009.
- 19) “Morphology and Density of post-CME Current Sheets”, Vršnak B., Poletto G., Vujić E., Vourlidas A., Ko Y.-K., Raymond J. C., Ciaravella A., Žic T., Webb D. F., **Bemporad A.**, Landini F., Schettino G., Jacobs C., Suess S. T., *A&A*, 499, 905, 2009.
- 20) “Spectroscopic detection of turbulence in post-CME Current Sheets”, **Bemporad A.**, *ApJ*, 689, 572, 2008.
- 21) “Reconnection in a slow Coronal Mass Ejection”, Poletto G., **Bemporad A.**, Landini F., Romoli M., *Ann. Geoph.*, 26, 3067, 2008.
- 22) “Magnetic Reconnection processes induced by a CME expansion”, **Bemporad A.**, Poletto G., Landini F., Romoli M., *Ann. Geoph.*, 26, 10, 2008.
- 23) “Low-frequency Lyman- $\alpha$  power spectra observed by UVCS in a polar coronal hole”, **Bemporad A.**, Matthaes W. H., Poletto G., *ApJL*, 677, 137, 2008.
- 24) “A Comprehensive Study of the Initiation and Early Evolution of a CME from UV and White Light Data”, **Bemporad A.**, Raymond J. C., Poletto G., Romoli M., *ApJ*, 655, 576, 2007.
- 25) “Density and magnetic field signatures of interplanetary 1/f noise”, Matthaes W. H., Breech B., Dmitruk P., **Bemporad A.**, Poletto G., Velli M., Romoli M., *ApJL*, 657, 121, 2007.
- 26) “A review of SOHO/UVCS observations of sungrazing comets”, **Bemporad A.**, Poletto G., Raymond J. C., Giordano S., *Planetary & Space Sc.*, 55, 1021, 2007.

- 27) "Current sheet evolution in the aftermath of a CME event", **Bemporad A.**, Poletto G., Suess S.T., Ko Y.-K., Schwadron N.A., Elliott H.A., Raymond J.C., *ApJ*, 638, 1110, 2006.
- 28) "Evidence for pyroxene dust grains in C/2001 C2 sungrazing comet", **Bemporad A.**, Poletto G., Raymond J.C., *Advances in Space Research*, Vol. 38, Issue 9, pp. 1972-1975, 2006.
- 29) "Lyman- $\alpha$  observations of sungrazing comets with the SOHO/UVCS instruments", **Bemporad A.**, Poletto G., Raymond J. C., Giordano S., *Adv. in Geosc.*, vol.3 "Planetary Science", 171, 2005.
- 30) "A new variety of CMEs: streamer puffs", **Bemporad A.**, Moore R. T., Sterling A. C., Poletto G., *ApJL*, v635, 189, 2005.
- 31) "UVCS observation of sungrazer C/2001 C2: possible comet fragmentation and plasma-dust interactions", **Bemporad A.**, Poletto G., Raymond J. C., Biasecker D. A., Ko Y. K., P. Lamy, Marsden B., Uzzo M., *ApJ*, v620, 2005.
- 32) "Evidence for the same hot plasma after CME events in both remote and in situ observations", Poletto G., Suess S., **Bemporad A.**, Zurbuchen T., Ko Y. K., *ApJL*, v613, L173, 2004.
- 33) "A slow streamer blowout at the Sun and Ulysses", Suess S. T., **Bemporad A.**, Poletto G., *GRL*, v. 31, Issue 5, CiteID L05801, 2004.
- 34) "Temporal evolution of a Streamer Complex: Coronal and in situ Plasma Parameters", **Bemporad A.**, Poletto G., Suess S.T., Ko Y.-K., Parenti S., Riley P., Romoli M., Zurbuchen T.Z., *ApJ*, v593, 2003.

## • CONFERENCE PROCEEDINGS

- 1) "A decade of coronagraphic and spectroscopic studies of CME-driven shocks", Vourlidas A. & **Bemporad A.**, *Proc. Of the 10<sup>th</sup> AIP Conferenc*, 1436, 279, 2012.
- 2) "Reconnection in the initiation phase of Coronal Mass Ejections", Soenen. A. Jacobs, C., Poedts S., **Bemporad A.**, Selwa M., Parnell C., *EGU General Assembly 2-7 May 2010*, 14462, 2010.
- 3) "Multi-wavelength study of a CME-driven shock at 4.1 solar radii", **Bemporad A.** & Mancuso S., *Proc. of the 38<sup>th</sup> COSPAR Scientific Assembly*, 18-15 July 2010, 3, 2010.
- 4) "Alfvén waves in a polar coronal hole from HINODE/EIS off limb observations", **Bemporad A.** & Abbo L., *Proc. of the 38<sup>th</sup> COSPAR Scientific Assembly*, 18-15 July 2010, 3, 2010.
- 5) "An erupting filament and associated CME observed by Hinode, STEREO and SOHO", **Bemporad A.**, Del Zanna G., Andretta V., Magri M., Poletto G., Ko Y.-K., *Proceedings of the "2<sup>nd</sup> Hinode Science Meeting"*, Boulder (CO), September 29 – October 3, 2009.
- 6) "Multi-instruments campaigns to observe the off-limb corona", Del Zanna G., Andretta V., Poletto G., Teriaca L., Ko Y.-K., Mason H.E., Vourlidas A., **Bemporad A.**, Magri M., *Proceedings of the "2<sup>nd</sup> Hinode Science Meeting"*, Boulder (CO), September 29 – October 3, 2009.
- 7) "Comparison of Large-Scale Density Fluctuations in the Outer Corona and in the Inner Heliosphere for Both Fast and Slow Solar Wind", Telloni, D., Bruno, R., Antonucci, E., D'Amicis, R., **Bemporad, A.**, *Proceedings of the "AGU Fall Meeting 2008"*, San Francisco, 15 – 19 December, 2008.
- 8) "A study of Lyman-alpha power spectra observed by UVCS over a polar coronal hole", **Bemporad A.**, Matthaeus, W.H., Poletto G., *Proceedings of the "37<sup>th</sup> COSPAR Meeting"*, Montréal, 13 – 20 July, 2008.
- 9) "Interpretation of the UVCS/SoHO observations of the 2002 March 22 and July 23 CME-driven shocks", Mancuso S. & **Bemporad A.**, *Proceedings of the "37<sup>th</sup> COSPAR Meeting"*, Montréal, 13 – 20 July, 2008.
- 10) "Are CMEs globally affecting the corona by reconnection occurring on different scales?", **Bemporad A.**, *Proceedings of the "37<sup>th</sup> COSPAR Meeting"*, Montréal, 13 – 20 July, 2008.
- 11) "Results from recent studies of CMEs with SOHO/UVCS", **Bemporad A.**, Poletto G., *Proceedings of the "LI Congresso della SAIIT"*, Firenze (Italy), 2007.
- 12) "SOHO/UVCS and Mauna Loa Mark IV observations of a slow CME below 2 solar radii", **Bemporad A.**, Poletto G., Raymond J. C., *Proceedings of the "SOHO 17" Meeting*, Giardini Naxos (Italy), Edited by H. Lacoste and L. Ouweland. ESA SP-617, Published on CDROM, p.24.1, 2006.
- 13) "Structure of a slow CME in the low corona", **Bemporad A.**, Poletto G., Raymond J. C., *Proceedings of the "IV Convegno della Ricerca Italiana in Fisica Solare"*, Trieste, 2005.

- 14) "Current Sheet Evolution in the Aftermath of a CME", **Bemporad A.**, Poletto G., Sess S.T., et al., Proceedings of the Solar Wind 11 / SOHO 16, "Connecting Sun and Heliosphere" Conference (ESA SP-592). 12 - 17 June 2005 Whistler, Canada. Edited by B. Fleck, T. H. Zurbuchen and H. Lacoste. Published by ESA Publications Division, ESTEC, Postbus 299, 2200 AG Noordwijk, The Netherlands, p.715, 2005.
- 15) "Early Evolution of a CME from White Light and UV Observations", **Bemporad A.**, Poletto G., Raymond J.C., Proceedings of the Solar Wind 11 / SOHO 16, "Connecting Sun and Heliosphere" Conference (ESA SP-592). 12 - 17 June 2005 Whistler, Canada. Editors: B. Fleck, T.H. Zurbuchen, H. Lacoste. Published by ESA Publications Division, ESTEC, Postbus 299, 2200 AG Noordwijk, The Netherlands, p. 711, 2005.
- 16) "Recursive narrow CMEs within a coronal streamer", **Bemporad A.**, Sterling A. C., Moore R. T., Poletto G., Proceedings del "11<sup>th</sup> Solar Physics Meeting", Editors: D. Danesy, S. Poedts, A. De Groof and J. Andries. Published on CDROM., p.153, 2005.
- 17) "Post-CME events: cool jets and current sheet evolution", **Bemporad A.**, Poletto G., Suess S.T., IAU 226 Symposium Proceedings, Cambridge University Press, pp. 77-82, 2005.
- 18) "Evidence for Pyroxene dust grains in C/2001 C2 sungrazing comet", **Bemporad A.**, Poletto G., Raymond J. C., Proceedings del "XXXV Cospar Meeting", Paris, p.3526, 2005 .
- 19) "A Detection of the Same Hot Plasma in the Corona - During a CME - and Later at Ulysses", Suess, S., Poletto, G., **Bemporad, A.**, AGU Fall Meeting 2004 Proceedings (Abstract num. SH21B-0402), 2004.
- 20) "Preliminary analysis of a CME observed by SOHO and Ulysses experiments", **Bemporad A.**, Poletto G., Romoli M., Suess S.T., ISCS 2003 Symposium, ESA Publications Division, ISBN 92-9092-845-X, pp. 567 - 570, 2003.
- 21) "Physical parameters of coronal streamers near the maximum phase of solar cycle", **Bemporad A.**, Poletto G., Romoli M., Mem. S.A.It., v.74, p. 721, 2003.
- 22) "Spatial and temporal behavior of the oxygen abundance in a streamer complex", **Bemporad A.**, Poletto G., Romoli M., In: Solar variability: from core to outer frontiers., ESA SP-506, p.545-548, 2002.

## • TECHNICAL PAPERS

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