

## Publications of Gabriele Cremonese

### Publications on refereed journals

#### 1987-1990

- 1) C.Barbieri, A.Kranjc, M.Scardia, G.Cremonese: Astrometric positions of Comet P/Halley, 1987, A&A, 187, 893.
- 2) M.Fulle, C.Barbieri, G.Cremonese, The dust tail of Comet P/Halley from ground-based CCD images, 1988, A&A, 201, 362.
- 3) G.Cremonese, M.Fulle: A disconnection event in the ion tail of Comet Bradfield 1987s, 1988, A&A, 202, L13.
- 4) G.Cremonese, M.Fulle: Photometrical analysis of the Neck-Line Structure of Comet Halley, 1989, Icarus, 80, 267.
- 5) G.Cremonese, M.Fulle: The dust tail of Comet Wilson 1987VII, 1990, AJ, 100, 1285.
- 6) M.Scardia, G.Cremonese: Astrometric positions of comet Wilson (1986 l), 1990, Astron. Nachr., 311, 6.

#### 1991-1999

- 7) M.Fulle, G.Cremonese, K.Jockers, H.Rauer: The dust tail of Comet Liller 1988V, 1992, A&A, 253, 615.
- 8) G.Cremonese, N.Thomas, C.Barbieri, C.Pernechele: High resolution Spectra of Io's neutral sodium cloud, 1992, A&A, 256, 286.
- 9) M.Fulle, S.Bosio, G.Cremonese, S.Cristaldi, W.Liller, L.Pansecchi, The dust environment of Comet Austin 1990V, 1993, A&A, 272, 634.
- 10) G.Cremonese, M.Fulle: 1994, The dust environment of comet Levy 1990XX, Planet.Space Sci., 42, 263.
- 11) G.Contarini, C.Barbieri, G.Corrain, G.Cremonese, R.Vio: 1996, Spectroscopic observations of the sodium atmosphere of the Moon, 44, 417.
- 12) G.Cremonese, M.Fulle, F.Marzari, V.Vanzani, 1997, Orbital evolution of meteoroids from short period comets, A&A, 324, 770.
- 13) G.Cremonese, S.Verani: 1997, High resolution observations of the sodium emission from the Moon, Adv. Space Res., 19, 1561.
- 14) G.Cremonese, H.Boehnhardt, J.Crovisier, A.Fitzsimmons, M.Fulle, J.Licandro, D.Pollacco, H.Rauer, G.P.Tozzi, R.M.West: 1997, Neutral sodium from comet Hale-Bopp: a third type of tail, ApJ Lett., 490, L199.
- 15) G.Cremonese, M.Fulle: 1997, Sodium in comets, Earth Moon Planets, 79, 209.
- 16) M.Mendillo, J.Baumgardner, G.Cremonese, C.Barbieri: 1997, Eclipse observations of the lunar atmosphere from the TNG site, The Three Galileos, Kluwer Academic.
- 17) G.Cremonese, F.Marzari, G.Corrain, N.Eccli: 1998, The Io sodium cloud: comparison between observations and numerical models, Icarus, 131, 138.
- 18) N.Thomas, H.U.Keller, E.Arijs, C.Barbieri, M.Grande, P.Lamy, H.Rickman, R.Rodrigo, K.-P.Wenzel, M.F.A'Hearn, F.Angrilli, M.Bailey, A.Barucci, J.Bertaux, K.Briess, J.Burns, G.Cremonese, W.Curdt, H.Deceuninck, R.Emery, M.Festou, M.Fulle, W.-H.Ip, L.Jorda, A.Korth, D.Koschny, R.Kramm, E.Kuhr, L.M.Lara, A.Llebaria, J.J.Lopez-Moreno, F.Marzari, D.Moreau, C.Muller, C.Murray, G.Naletto, D.Nevejans, R.Ragazzoni, L.Sabau, A.Sanz, J.Sivan, G.Tondello: 1998, OSIRIS--the optical, spectroscopic and infrared remote imaging system for the Rosetta Orbiter, Adv.Space Res., 21, 1505.
- 19) H.Rauer, C.Arpnigny, J.Manfroid, G.Cremonese, C.Lemme: 1998, The spatial sodium distribution in the coma of comet Hale-Bopp (C/1995 O1), A&A, 334, L61.

- 20) R.Schulz, C.Arpnigny, J.Manfroid, J.A.Stuwe, G.P.Tozzi, K.Rembor, G.Cremonese, S.Peschke: 1998, Spectral evolution of ROSETTA target comet 46P/Wirtanen, *A&A*, 335, L46.
- 21) S.Verani, C.Barbieri, C.Benn, G.Cremonese: 1998, Possible detection of meteor stream effects on the lunar sodium atmosphere, *Planet.Space Science*, 46, 1003.
- 22) D.M.Hunten, G.Cremonese, A.L.Sprague, R.E.Hill, S.Verani, R.W.H.Koslowski: 1998, The Leonid meteor shower and the lunar sodium atmosphere, *Icarus*, 136, 298.
- 23) M.Fulle, G.Cremonese, C.Bohm: 1998, The preperihelion dust environment of C/1995O1 Hale-Bopp from 14 to 4 AU, *AJ*, 116, 1470.
- 24) G.Cremonese: 1999, Hale-Bopp and the sodium tails, *Space Science Review*, 90, 83.
- 25) C.Barbieri, C.Benn, G.Cremonese, S.Verani: 1999, Meteor shower on the lunar atmosphere, *Earth Moon and Planets*, 85, 479.
- 26) Barbieri, C., Cremonese, G., Fornasier, S., Lazzarin, M., Marchi, S., Ragazzoni, R., Rampazzi, F., Verani, S., Benn, C., Mendillo, M., Baumgartner, J., Wilson, J., Chakrabarti, S., Dolci, M., 1999, LUNAM 2000 (LUNar Atmosphere Mission), *Earth Moon and Planets*, 85, 487.

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- 28) M.Maris, G.Carraro, G.Cremonese, M.Fulle: 2001, Multicolor photometry of the Uranus irregular satellites Sycorax and Caliban, *AJ*, 121, 2800.
- 29) G.Cremonese, W.F.Huebner, H.Rauer, D.C.Boice: 2002, Neutral sodium tails in comets, *Adv.Space Res*, 29, 1187.
- 30) A.Carbognani, G.Cremonese: 2002, Excitation and Ionization of Sodium in Meteoroid Impacts on the Moon, *A&A*, 394, 723.
- 31) G.Cremonese, F.Marzari, C.Burigana, M.Maris: 2002, Asteroid detection at millimetric wavelengths with the Planck survey, *New Astronomy*, 7, 483.

#### **2004**

- 32) G.Cremonese, M.T.Capria, V.Achilli, F.Angrilli, P.Baggio, C.Barbieri, J.Baumgardner, N.Bistacchi, F.Capaccioni, A.Caporali, I.Casanova, S.De Bei, G.Forlani, S.Fornasier, D.Hunten, W.H.Ip, M.Lazzarin, I.Longhi, L.Marinangeli, F.Marzari, M.Massironi, P.Masson, M.Mendillo, B.Pain, G.Preti, R.Ragazzoni, J.Raitala, G.Salemi, M.Sgavetti, A.Sprague, E.Suetta, M.Tordi, S.Verani, J.K.Wilson, L.Wilson:2004, MEMORIS: a wide angle camera for the BepiColombo mission, *Adv.Space Res.*, 33, 2182.
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- 35) C. Barbieri, S. Verani, G. Cremonese, A. Sprague, M. Mendillo, R. Cosentino, D. Hunten, First observations of the Na exosphere of Mercury with the high resolution spectrograph of the 3.5m Telescopio Nazionale Galileo, 2004, *Plan.Space Sci.*, 52, 1169.

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- 36) A.Milillo, S. Orsini, D. Delcourt, E. Kallio, R.M. Killen, H. Lammer, F. Leblanc, S. Massetti, A. Mura, P. Wurz, S. Barabash, G. Cremonese, I.A. Dagalos, E. De Angelis, A.M. Di Lellis, S. Livi, V. Mangano, Surface-exosphere-magnetosphere system of Mercury, 2005, *Space Science Review*, 117, 397
- 37) S.Marchi, A.Morbidelli, G.Cremonese, Flux of meteoroid impacts on Mercury, 2005, *A&A*, 431, 1123.
- 38) G.Cremonese, M.Bruno, V.Mangano, S.Marchi, A.Milillo, Neutral sodium atoms release from the surface of Mercury induced by meteoroid impacts, 2005, *Icarus*, 177, 122.

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## **2006**

- 41) M.Bruno, G.Cremonese, S.Marchi, Neutral sodium atoms release from the surface of the Moon induced by meteoroid impacts, 2006, *MNRAS*, 367, 1067-1071.
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- 44) W.H.Ip, I.G.Jiang, D.Kinoshita, L.N.Hau, A.Fujiwara, Y.Saito, F.Yoshida, K.W.Min, A.Bhardwaj, H.Boehnhardt, P.Hartogh, M.T.Capria, G.Cremonese, A.Milillo, S.Orsini, D.Gautier, D.Jewitt, T.Owen, A mission called SAPPORO, 2006, *Advances in Geosciences*, 3,

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- 45) F.Leblanc, E.Chassefiere, R.E.Johnson, D.M.Hunten, E.Kallio, D.C.Delcourt, R.M.Killen, J.G.Luhmann, A.E.Potter, A.Jambon, G.Cremonese, M.Mendillo, N.Yan, A.L.Sprague, Mercury's exosphere origins and relations to its magnetosphere and surface, 2007, *Plan.Space Sci.*, 55, 1069.
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- 50) M.Sgavetti, L.Pompilio, C.Carli, C.De Sanctis, F.Capaccioni, G.Cremonese, E.Flamini, Mineral and rock composition of the Mercury and Moon surfaces: expected knowledge advances from BepiColombo SIMBIO-SYS data, 2007, *Plan.Space Sci.*, 55, 1596-1613.
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- 56) M.T.Capria, G.Cremonese, A.Bhardwaj, M.C.De Sanctis, E.Epifani Mazzotta, Oxygen emission lines in the high resolution spectroscopy of 9P/Tempel 1 in La Palma during the Deep Impact event, 2008, *A&A*, 479, 257.
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- 5) ESA BepiColombo/Mercury Planetary Orbiter Neutral Particle Analyzer Meeting, 2001, Venezia, *Exospheric gas properties through Wide Angle Camera*
- 6) ESLAB36: Earth-like Planets and Moons, 2002, ESA Estec, *Exospheres of Earth-like planets and Moons*
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