Buratti B. J.  Hicks M. D.  Dalba P. A.  Chu D.  O’Neill A. et al.
Observing the Rotational Lightcurve of Pluto Through Time: Evidence for Continuing Volatile Transport [#1575]
Changes in Pluto’s lightcurve show that seasonal volatile transport is currently occurring on its surface. Sublimating frosts reveal a darker redder subsurface.

Espartero F.  Madiedo J. M.
Emission Spectrum of a Kappa-Cygnid Meteor Afterglow [#1163]
We focus on the analysis of the afterglow spectrum of a magnitude −10.5 KCG fireball imaged over Spain on Aug. 15, 2012.

Fatigue Stress Detection of VIRTIS Cryocoolers On Board Rosetta [#1023]
This analysis led to the conclusion that cryocoolers, when operating on board, are subject to a fatigue stress not present in the on-ground life tests.

Hyodo R. H.  Ohtsuki K. O.
Formation of Co-Orbital Satellites by Spreading of Roche-Interior Particle Disks [#1293]
We performed direct N-body simulations in order to investigate the evolution of circumplanetary particle disks and formation of co-orbital satellites.

Kochemasov G G.
A Wave Modulation Nature of the 3D Structural Lattice of the Churyumov-Gerasimenko Comet Icy Core [#1088]
Rosetta images of the Ch-G comet icy core of all scales show peculiar cross-cutting stripes of outcrops, spherial boulders, and dust explained by wave processes.

Konovalova N. A.  Madiedo J. M.  Trigo-Rodriguez J. M.
Meteorite-Dropping Sporadic Fireball with an Asteroidal Origin and Its Parent Body [#1194]
The results of the analysis of a slow moving fireball −7.3 magnitude are presented. This event falls into the category of meteorite-dropping meteoroids.

López S.  Madiedo J. M.
Spectroscopy of Poorly Known Meteoroid Streams in the Framework of the S.M.A.R.T. Project [#2057]
We present here the first emission spectrum ever recorded for a 78 Ursae Majorid fireball.

Madiedo J. M.
Emission Spectroscopy of a Rho-Geminid Meteor [#1170]
Here, I focus on the analysis of a double-station rho-Geminid meteor and its emission spectrum, which was recorded in the framework of the SMART Project.

Malhotra R.
Oort Cloud Comet Encounters with Mars, Earth, Venus and Mercury [#2467]
Oort cloud comets encounter the terrestrial planets randomly, with a frequency of about one per ten thousand years, at flyby distances less than one million kilometers.

Moreno-Ibáñez M.  Trigo-Rodriguez J. M.  Rodriguez D.  Sanchez A.
Astrometric and Photometric Follow-Up of Potentially Hazardous Asteroids Using Joan Oró Robotic Telescope at Montsec Astronomical Observatory [#1138]
The main highlights and asteroidal targets of the 2014 NEO-PHA observational program at the Montsec Astronomical Observatory (OAdM) are presented.
Okayama H.  Ohtsuki K.
Effect of Gravitational Scattering by a Large Captured Body on the Stability of Jupiter’s Trojan Asteroids [1161]
Jovian Trojans are expected to provide clues to the dynamical evolution of the planets and small bodies. We studied stability of them for 5 billion years.

Perov N. I.
The Closed Trajectories of Undiscovered Small Bodies in the Solar System [1021]
Asteroids influenced by planetary masses can have a wide variety of closed “thin” orbits, which are explored here in restricted three-body simulations.

Sanchez A.  Trigo-Rodriguez J. M.  Rodriguez D.
Monitoring of Comet C/2014 Q2 Lovejoy During Close-Approach to the Earth [1757]
We conducted a photometric follow-up program of groundbased photometry of C/2014 Q2 using standard Johnson-Cousin filters. Magnitude fluctuations are observed.

Segura J.  Madiedo J. M.  Izquierdo J.
On the Parent Body of the North, Omega-Scorpiid Meteoroid Stream [1281]
We present data that support the idea that Asteroid 1996 JG is the parent NEO of the NSC meteoroid stream.

Shestopalov D. I.  Golubeva L. F.  Cloutis E. A.
Remote Sensing Olivine in Pyroxene-Bearing Targets: The Case of V-Type Asteroids [1116]
We study the properties of reflectance spectra to detect olivine at its low content in mixtures similar in composition to the regoliths of V-type asteroids.

Phase Angle Dependence of Brightness as a Tool for Taxonomic Classification of Asteroids: Case for Asteroids (723) Hammonia and (16551) 1991 RT14 [1509]
Results of photometry of asteroids (723) Hammonia and (16551) 1991 RT14 are presented. These data indicate that the asteroids have moderate-albedo surfaces.

Shimizu S.  Ohtsuki K.
Orbital Evolution of Planetesimals in Circumplanetary Gas Disks and Probability of Collision with Protosatellites [1102]
We examined orbital evolution of planetesimals in circumplanetary gas disks using numerical calculation.