By using the Mercury 6 symplectic integrator and orbital association software developed by us, we have identified a NEO as the progenitor body of a fireball.

We present here a preliminary analysis of a multistation superbolide imaged on July 21, 2012, over Spain.

Here we analyze a double-station sporadic fireball recorded in the morning twilight of July 7, 2011.

Here we present the analysis of a NOP fireball recorded in the framework of our fireball monitoring and spectroscopic campaign.

We analyze here a southern δ-Aquariid fireball imaged in 2011 together with its emission spectrum.

This work analyzes a superbolide that reached its maximum brightness next to the zenith of the Sierra Nevada Astronomical Observatory (Spain) in 2010.

We present here the preliminary analysis of a Quadrantid fireball and its emission spectrum.

We analyze here a very bright fireball witnessed on August 10, 2012, over the northwestern Iberian Peninsula.

The emission spectrum produced by an o-Draconid fireball is analyzed.

We analyze here a JZA fireball recorded together with its emission spectrum in January 2011.
Gonzalez-Reina L. A.  Madiedo J. M.  Trigo-Rodríguez J. M.  Toscano F. M.  
*Physico-Chemical Properties of Sporadic Meteoroids Inferred from the Continuous Monitoring of Meteor and Fireball Activity* [#1157]

We present here the analysis of a sporadic bolide simultaneously imaged in July 2012 from two meteor observing stations operated by the Spanish Meteor Network.

Granados M.  Madiedo J. M.  Trigo-Rodríguez J. M.  
*Analysis of a June Lyrid Fireball* [#1138]

Here we present the preliminary analysis of a bright multistation JLY bolide imaged in the framework of the Spanish Meteor Network (SPMN) in 2012.

*Spectral and Orbital Analysis of an October Delta-Aurigid Fireball* [#1072]

We present here the preliminary analysis of a multi-station October δ-Aurigid fireball recorded in 2012.

Jimenez P.  Madiedo J. M.  Trigo-Rodríguez J. M.  
*Orbital Parameters and Chemical Nature of Omicron Cygnids Meteoroids* [#1158]

In this work we analyze an omicron Cygnid fireball recorded in the framework of the Spanish Meteor Network (SPMN) in 2012.

Konovalova N. A.  Madiedo J. M.  Trigo-Rodríguez J. M.  
*Analysis of a Large Meteorite-Dropping Fireball from the Apollo NEA Family* [#1479]

The atmospheric trajectory, radiant, and heliocentric orbit of a slow moving fireball of magnitude –9.5, recorded on August 5, 1980, is presented.

*A Sporadic Fireball Produced by a Meteoroid Trapped in a Jovian Resonance* [#1139]

In this work we present the preliminary analysis of a sporadic fireball observed on May 17, 2012.

*A Superbolide Recorded over Spain on July 13, 2012* [#1116]

The first results of the analysis of a superbolide observed over the Iberian Peninsula on July 13, 2012, are presented in this work.

*Emission Spectrum and Orbital Elements of a Sporadic Fireball Imaged in 2011* [#1137]

A mag. –10 sporadic fireball was recorded from two of our meteor stations on October 4, 2011. This event is discussed here.

Martinez-Requena C. M.  Madiedo J. M.  Trigo-Rodríguez J. M.  
*Analysis of a Sporadic Fireball Recorded over Spain in 2012* [#1073]

A double-station sporadic fireball imaged from two of our meteor stations on February 25, 2012 is analyzed here.

Martínez L.  Madiedo J. M.  Trigo-Rodríguez J. M.  
*Analysis of a Kappa-Cygnid Fireball* [#1060]

The spectrum and orbital elements of a κ-Cygnid bolide are presented in this abstract.

Montero F. J.  Madiedo J. M.  Trigo-Rodríguez J. M.  
*A 2010 Fireball Produced by a Meteoroid from Comet 1P/Halley* [#1430]

In this work we analyze one Orionid fireball, which was recorded together with its emission spectrum on Oct. 23, 2010, at 23h53m09.3 ± 0.1s UTC.

Moreno A.  Madiedo J. M.  Trigo-Rodríguez J. M.  
*Spectra of Bolides Produced by Meteoroids from (3200) Phaeton* [#1058]

In this we analyze four emission spectra produced by meteoroids from the Geminids stream.
*A Fireball Produced by a Meteoroid Belonging to the Delta Aquilids Stream* [#1071]  
We present here the analysis of a DAL bolide imaged in the framework of the continuous fireball monitoring campaign developed by the Spanish Meteor Network.

*Physico-Chemical Properties of 109P/Swift-Tuttle Debris* [#1159]  
We present here a preliminary analysis of some relevant multistation PER fireball events recorded during 2011 and 2012.

Ordoñez L. Madiedo J. M. Trigo-Rodríguez J. M.  
*Aerospheric Trajectory, Orbit and Chemical Composition of a Sporadic Bolide Imaged in 2011* [#1160]  
In this work we analyze a double-station sporadic fireball imaged in the framework of our continuous fireball monitoring and spectroscopic campaigns in 2011.

*Analysis of a Northern October Delta Arietid Fireball Imaged in 2012* [#1421]  
Three of our meteor monitoring stations recorded on Oct. 17, 2012, a mag. –8 NOA fireball. Its emission spectrum was also obtained. This event is analyzed here.

*A 2012 Geminid Fireball: Atmospheresic Trajectory, Orbit and Spectrum* [#1108]  
In this work we present the analysis of a bright Geminid bolide (absolute magnitude –10) observed over southern and central Spain in 2012.

*A 5-Years Fireball Monitoring Experience of an Astronomical Association Operating a High-Sensitivity Video Station in the Framework of the Spanish Meteor Network* [#2054]  
Detection of fireballs from Folgueroles SPMN station in the period 2009–2013 is reported. A task to understand the processes behind the delivery of meteorites.

Rey J. M. Madiedo J. M.  
*Development of Automated High-Resolution Slow-Scan CCD Systems for Meteor Spectroscopy: Preliminary Results* [#1067]  
This abstract describes the automated high-resolution CCD spectrographs developed in the framework of the University of Huelva.

Robles V. Madiedo J. M. Trigo-Rodríguez J. M.  
*Determination of Physico-Chemical Parameters of a Possible Sigma Hydrid Fireball Observed in 2012* [#1426]  
We analyze here a double-station fireball imaged from two of our video stations in 2012. The fireball appeared on December 28, at 6h29m39.7 ± 0.1s UTC.

*A Potential Meteorite-Dropping Fireball Recorded over Spain in 2011* [#1101]  
A meteorite-dropping event that took place over southwest Spain on March 21, 2011, is presented.

*The “Valencia de las Torres” Superbolide of August 23, 2012* [#1156]  
On August 23, 2012, a superbolide was recorded by our fireball monitoring systems operating in southern and central of Spain. This is analyzed here.

Romero A. Madiedo J. M. Trigo-Rodríguez J. M.  
*A Meteoroid from a Jupiter Family Comet Recorded as a Bright Bolide in 2012* [#1149]  
We present orbital and chemical information derived from the analysis of a fireball imaged in 2012. This event was produced by a meteoroid from a JFC.
Development of a Continuous Spectroscopic Campaign in the Framework of the Spanish Meteor Network
This work focus on our continuous spectroscopic campaign and some results we have obtained so far.

On the Orbit and Chemical Nature of Phi-Bootids Meteoroids
We present here the preliminary analysis of a sporadic double-station ϕ-Bootid fireball recorded by us on May 10, 2011.

The 2012 Geminids Balloon-Borne Mission Over Spain
Video recording from the stratosphere using weather balloons is an excellent technique for meteor research. We have detected 16 possible Geminids.

Physico-Chemical Properties of Meteoroids from the Alpha-Capricornid Stream
We analyze here four α-Capricornid fireballs registered in July 2012 in the framework of our continuous fireball monitoring and spectroscopic campaigns.

Post-Discovery Photometric Follow-Up of Sungrazing Comet C/2012 S1 ISON
A photometric monitoring program of sungrazing comet C/2012 S1 ISON is presented. We have detected from photometry the importance of water sublimation at 5.7 AU.

Orbit and Lines Identification in the Emission Spectrum of a Sporadic Fireball
In this work we analyze a sporadic fireball recorded on December 28, 2011.

Spectral Analysis and Orbit of the “Doñana” Fireball, Recorded on Jan. 25, 2012
This work analyses a mag. −9 sporadic fireball recorded over the Doñana Natural Park (Spain) on Jan. 25, 2012.