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Active asteroids: mystery in the Main Belt

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Abstract: Enter abstract text below. The extent of the abstract should be limited to 37 lines. Any mathematical expressions or special characters write with LaTeX coding. *

Active asteroids are relatively new objects to study in the Solar system; they have asteroid-like orbits but exhibit comet-like activity. The study of active asteroids allows one to cross the traditionally drawn lines between the research focused on inactive asteroids and active comets, and to motivate reevaluations of classical assumptions about small Solar System objects. Sometimes active asteroids are called 'transition objects' or 'continuum objects', which are not necessarily the transitional evolutionary states between asteroids and comets; they simply belong to the general population of small Solar system bodies.

Active asteroids are interesting to study because they possess many properties typical of comets (e.g., relatively primitive compositions, ejection of the surface and subsurface material) allowing us to study regions of the Solar system that are not sampled by classical comets.

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