

References

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- Martinez, P.: "L'utilisation du T 60 pour la redécouverte des comètes périodiques", *L'Astronomie*, 1987 May, p.247
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- [See also the paper by C. Buil on the use of CCDs – Eds.]

Shape and Frequency of Outbursts of P/Schwassmann-Wachmann 1

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Abstract

Observations made since the comet's discovery (1927) were analyzed and reduced to remove observational bias. Comparison was made with possible mechanical effects on the nucleus (tidal forces, impacts). The observations appear to best fit an internal mechanism (exothermic chemical reactions) as proposed by Whipple.

[The text of this paper was received, but was of such extreme length that it could not be included in full, as the author requested. – Eds.]

Astrometry of Comet Halley

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[This contribution was delivered, but neither text nor abstract have been received. – Eds.]

Observation and Analysis of Comet Tails

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Abstract

Details of H₂O and dust production in P/Halley are mainly derived from amateur observations of cometary tails, leading to a gas/dust mass-ratio. The rotational period (2.21 day) is also found from amateur observations. Velocity and acceleration of the plasma and velocity and direction of the solar wind are also derived, together with size and indications of the mass-distribution function for dust particles.

These techniques have been applied to other comets, giving interesting results on differences between various comets. There is a lot of information available in cometary photographs. The coordination and archival storage of such information is urgently required.

[This paper was delivered, but no text was received. – Eds.]