



Back projections of the light curves of the RU Monocerotis binary.

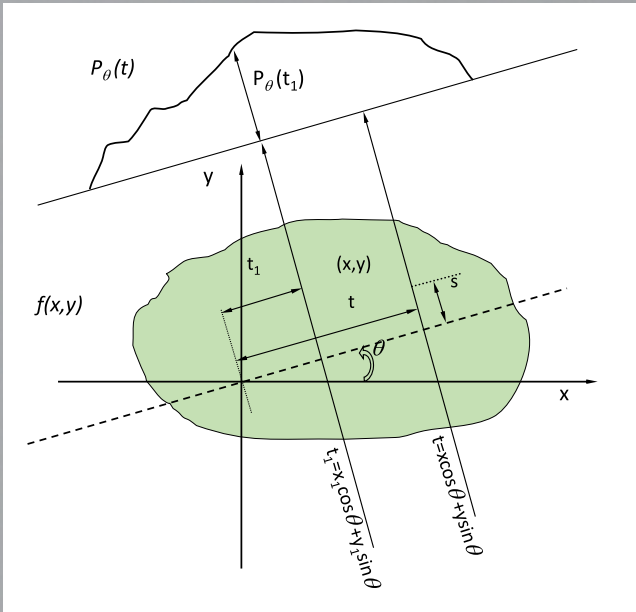
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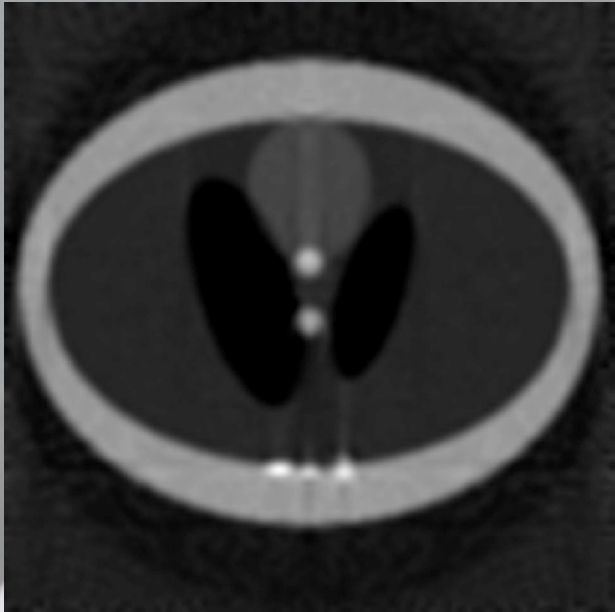
Abstract

The poster presents the result of our mathematical experiment with the light curves of the variable RU Monocerotis which has high value of the apsidal motion. We have treated older and our photometric data for the different positions of the longitude of the periastron of the studied binary with our reconstruction algorithms. We have obtained very interesting result – picture of the primary and secondary minima projections representing the value of the apsidal motion of the system.

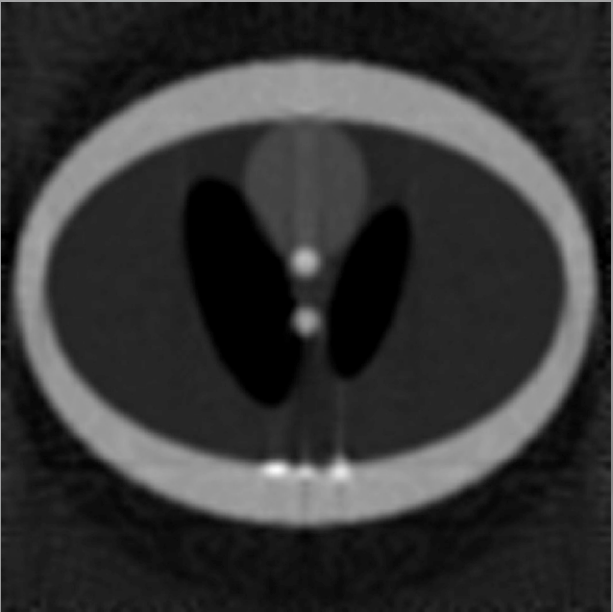
Reconstruction from back projections



The principle

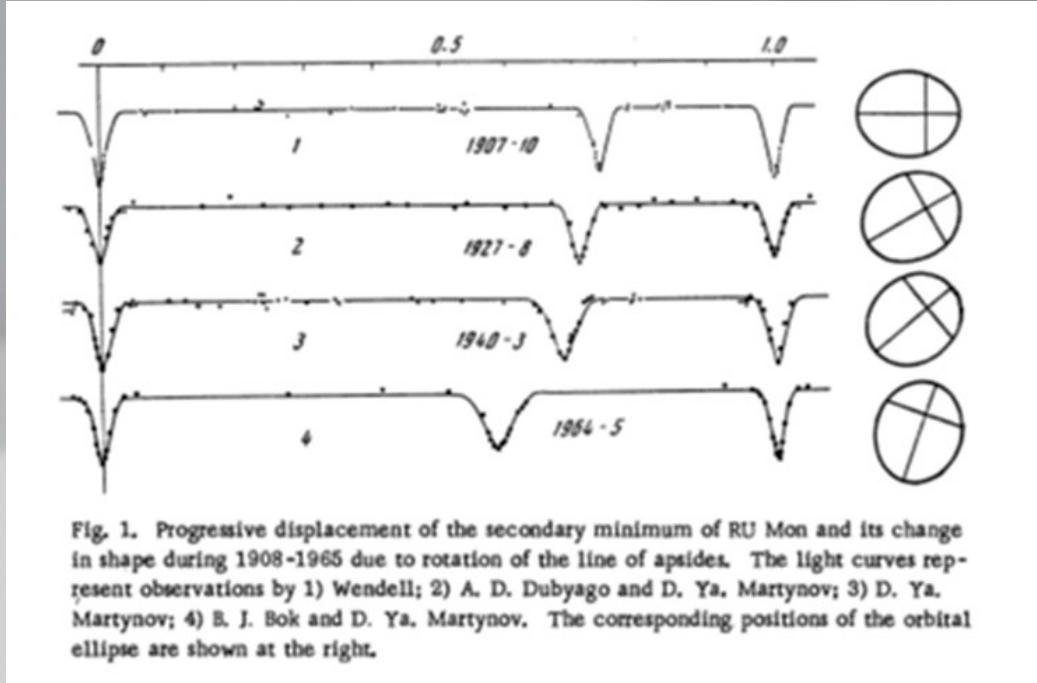


The Phantom pictures - the proof of the correctness of our software

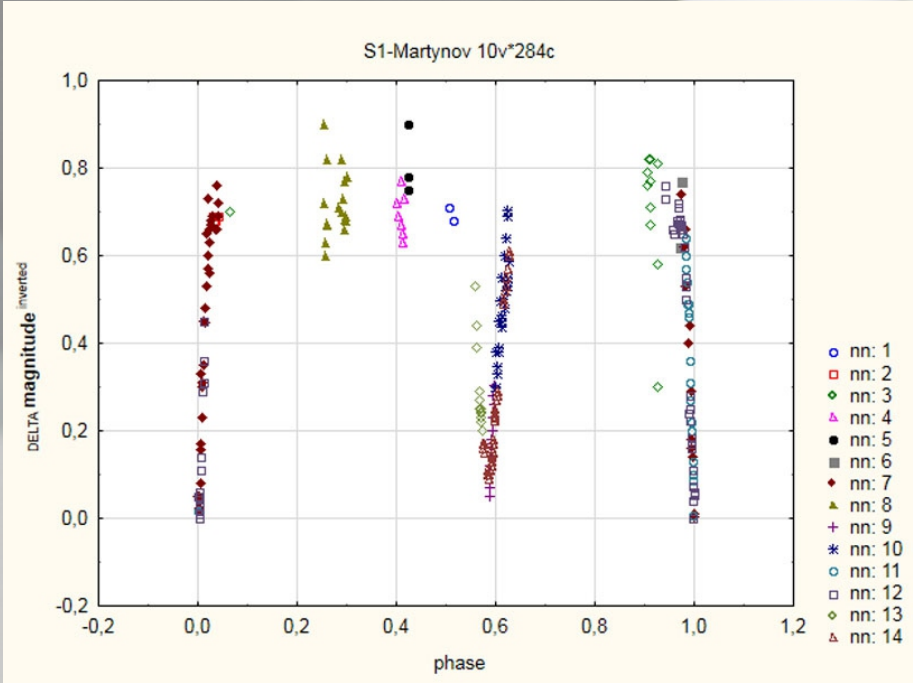


Astronomical applications:
Doppler tomography, 21 cm tomography, solar rotational tomography ...
Our experiment: light curves of binaries with eccentric orbits

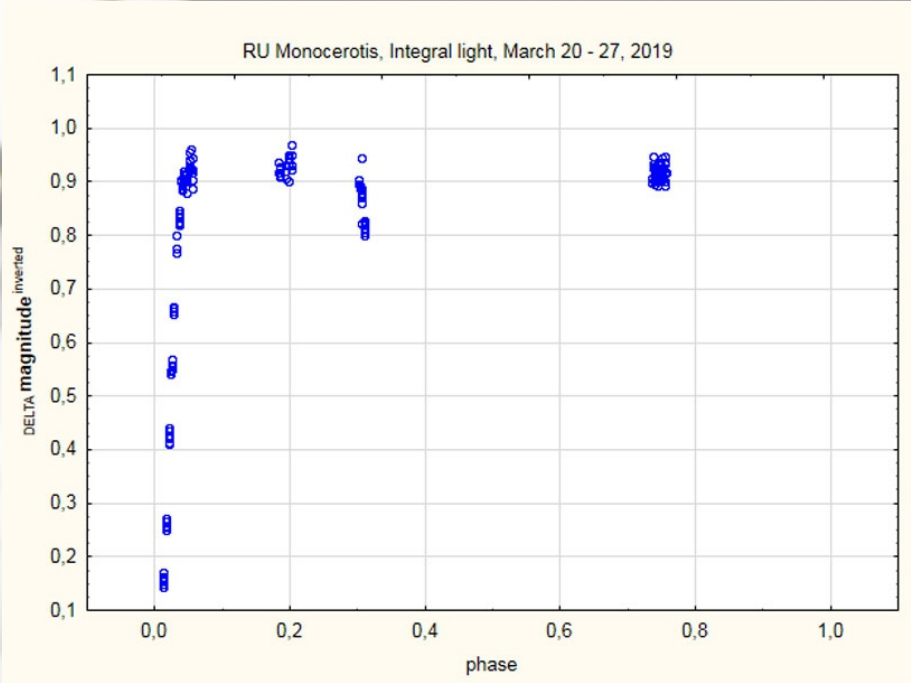
RU Monocerotis light curves



past

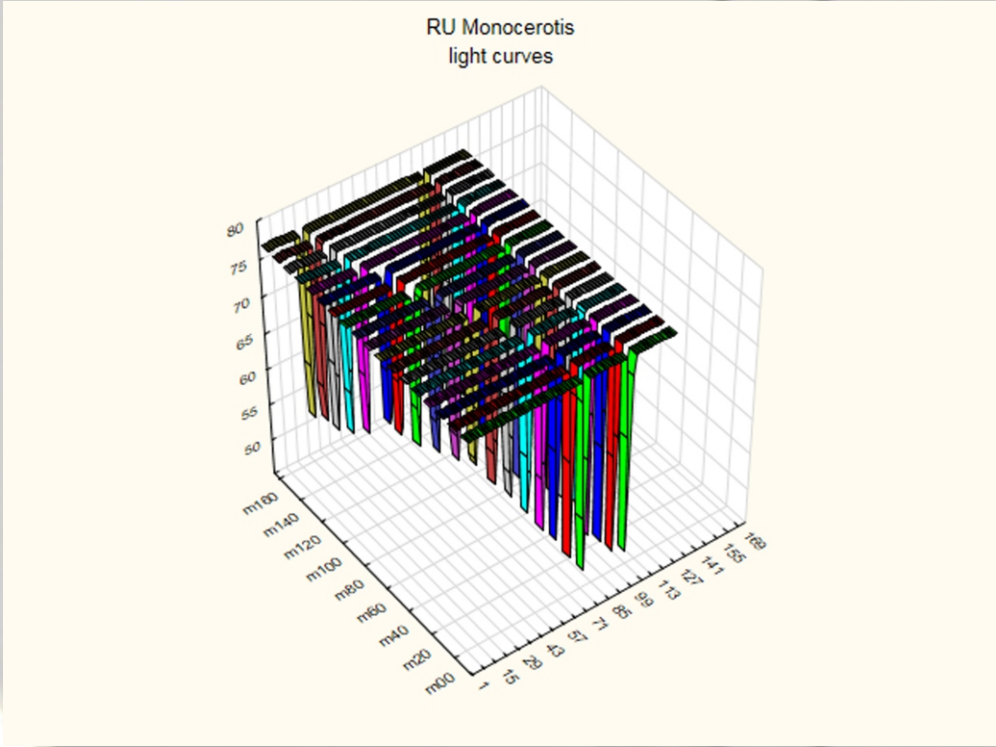


former



our one today

The reconstruction from projections



Set of relevant light curves - BM3 reduced



their back projection

Comparison or the proof of correctness more



V456 Ophiuchy - no eccentricity orbit