«INTER-LONGITUDE ASTRONOMY» PROJECT: PART OF THE SCIENTIFIC SCHOOL ON VARIABLE STARS FOUNDED BY V. P. TSESSEVICH (1907–1983)

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The «Inter-Longitude Astronomy» project consists of few directions of theoretical and observational study of structure and evolution of variable stars in a wide range from white dwarfs to supergiants:

- «Polar» (or «Gravi-Magnetic Rotator») —
 classical (AM Her type), asynchronous
 (BY Cam type) and intermediate (DQ Her
 type polars);
- «Superhumper» observational appearance of positive and negative superhumps in dwarf novae and nova-like systems;
- «Symbiosis» multi-component variability of symbiotic binaries with nova and pulsating

- components based on photographic and visual monitoring;
- «Stellar Bell» periodic, multi-periodic, quasi-periodic and aperiodic pulsations in the Mira, semi-regular, RV Tau — type stars;
- «New Variable Stars» robotic time series analysis and photometric classification of space and ground-based observations of newly discovered or neglected variable stars.

The total number of stars studied is ~1300, the number of publications >300; the citation index 240 (excluding self-citations), 5 defended PhD Theses; 1 dissertation of Doctor of Science.