



Contribution ID: 538

Type: **Talk in a parallel session**

On the possible common origin of pulsar pairs: B0834+06 and B1742-30

Monday, 8 July 2024 15:30 (20 minutes)

Astrometric data presented in ATNF Pulsar Catalogue have enabled us to determine the trajectories through the Galactic potential for different kick-velocity models of pulsars.

The system was disrupted $\sim 0.2-0.8$ Myr ago, which must correspond to the true age of at least one of the pulsars. The implied pulsar birth velocities are consistent with the high velocities of neutron stars in general. The consistency between our derived kinematic age and the spin-down age of one of the pulsars and similarity of the tangential velocities of pulsars are remarkable.

Primary authors: GIGOYAN, Karen (NAS RA Byurakan Astrophysical Observatory after V. A. Ambartsumian); HAMBARYAN, Valeri (1) Astrophysikalisches Institut und Universitaets-Sternwarte Jena, 2) Byurakan Astrophysical Observatory.)

Presenter: GIGOYAN, Karen (NAS RA Byurakan Astrophysical Observatory after V. A. Ambartsumian)

Session Classification: Massive white dwarfs and related phenomena

Track Classification: Compact Objects and Stellar Evolution (CO): Massive white dwarfs and related phenomena