

# Kinematics of binary sdB stars

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## 142 sdB binaries with known orbits (Kupfer 2015):

-Kinematics: 6D phase space:

Position & Distance

Radial velocity (system velocity)

proper motion (PPMXL, USNO-B1, UCAC4)

- Calculate trajectories in Galactic potential (Irrgang et al. 2013)

- Diagnostic tools (Pauli et al. ,2006):

U-V diagram

Jz –e diagram

individual orbits

## Clarify Galactic Population membership

## The orbit of SDSS J0023

