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Canard Supersonique

Tuesday, December 2, 2014, 16:00
TU Wien, Freihaus, Green Area, 6th floor, SEM 107

Looking at the gas dynamics of stars under the assumption of spherical symmetry, I will show that transonic events in such systems are canard phenomena - peculiar solution structures identified in geometric singular perturbation problems. Consequently, stellar winds are carried by supersonic ducks, and canard theory provides a mathematical framework for this astrophysical phenomenon.