



Astrophysics, Relativity, Cosmology Seminar
TAPIR, California Institute of Technology

14 February 2025

WD + MS binaries as probes of binary interaction

Natsuko Yamaguchi

PMA, California Institute of Technology, Pasadena, CA

Abstract

Binary interaction is among the most important unsolved problems in stellar astrophysics. Close white dwarf (WD) + main sequence (MS) binaries are the end products of mass transfer processes that occurred when the WD progenitor was a red giant, making them key tools for improving our understanding of these processes. In this presentation, I will provide an overview of the existing literature, going into some detail about the sample of WD + MS binaries discovered using Gaia DR3, and describe a few of my completed and ongoing projects related to this.