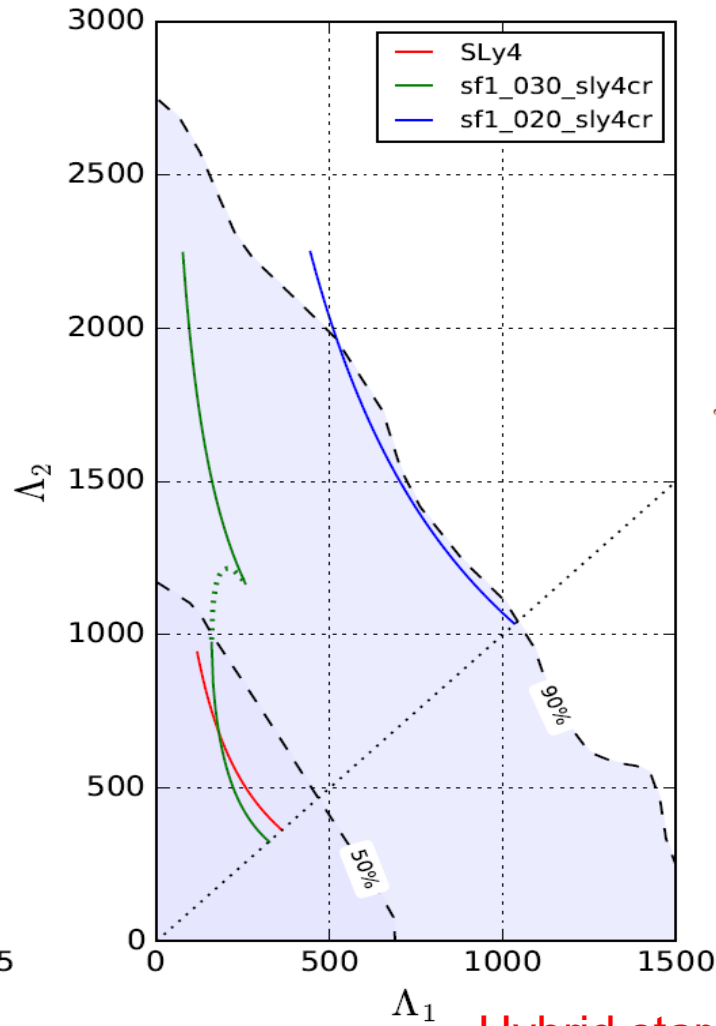
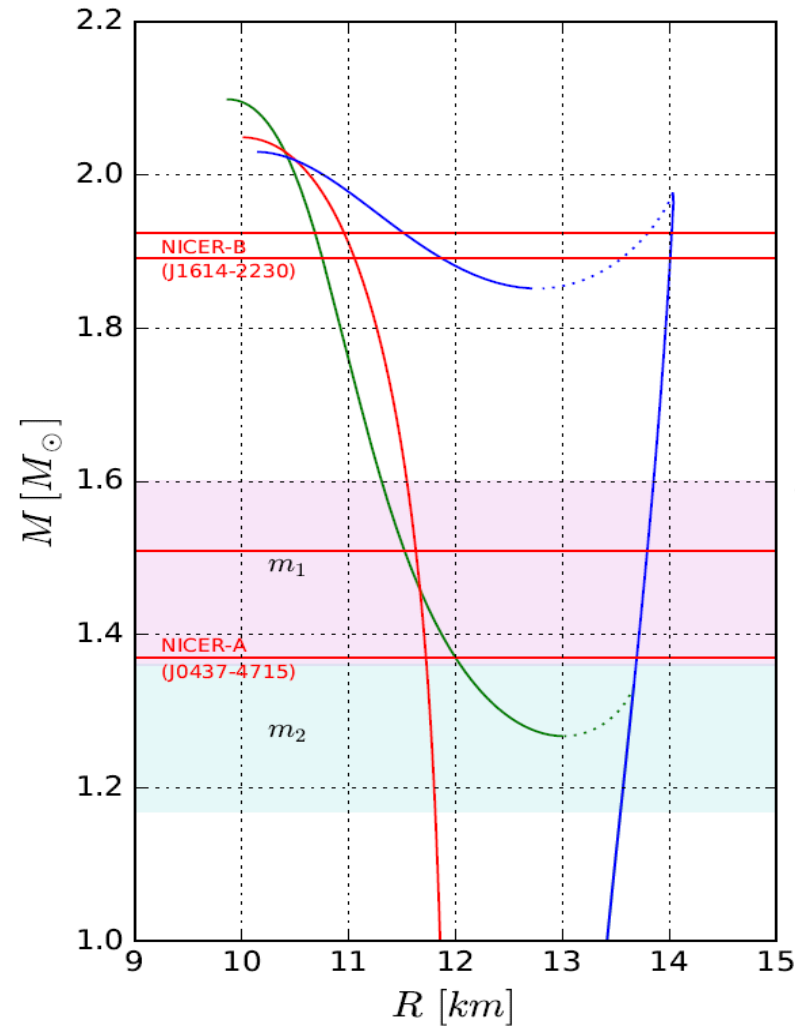
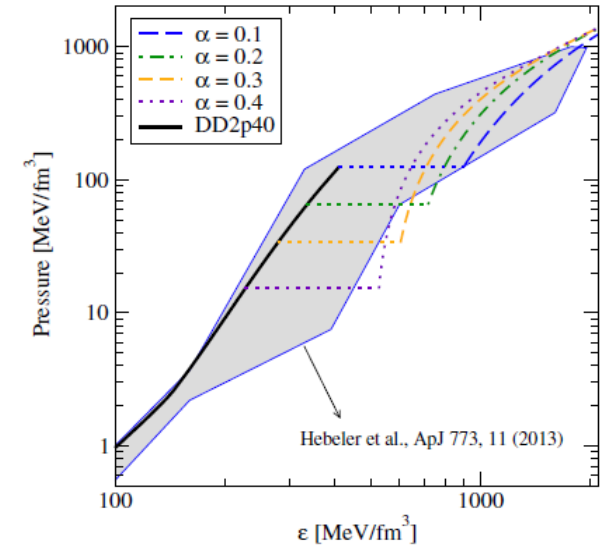


Was GW170817 not a neutron star merger?



EoS:

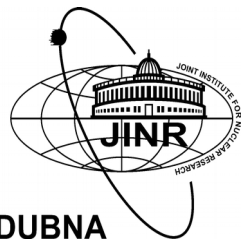
DD2_P40 – SFM_α=0.3
M. Kaltenborn et al.
PRD 96 (2017) 056024



TOV / TD calculation:
M. Bejger et al.

Alternative:

Hybrid star (HS) – HS / HS-NS merger



DUBNA

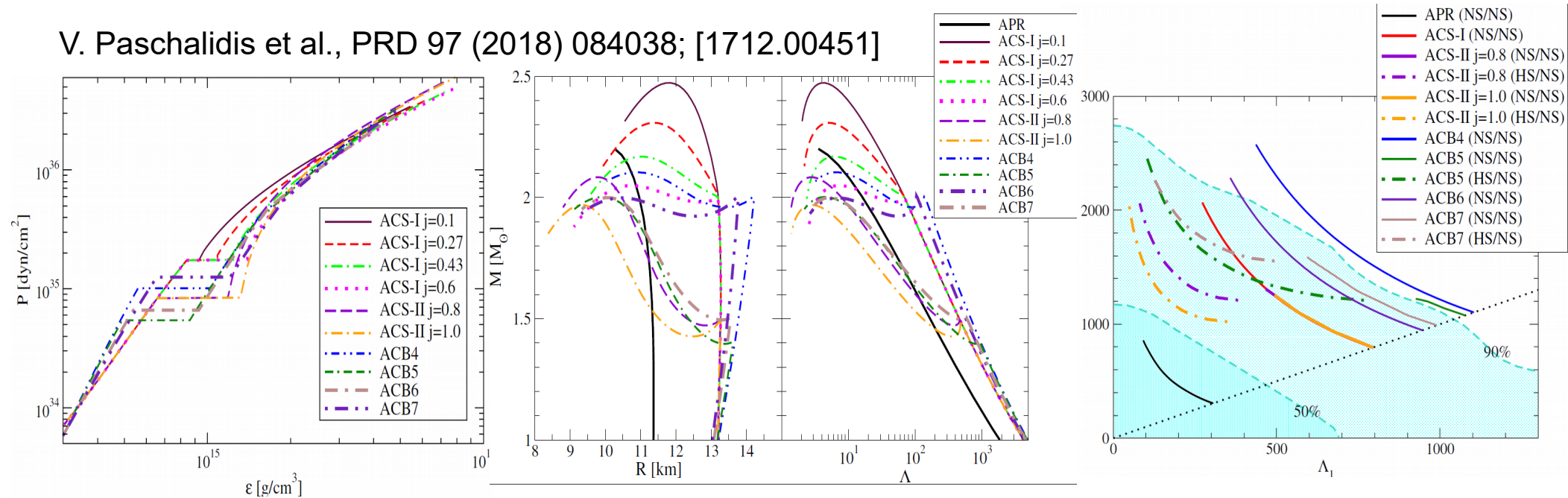


David Blaschke, CSQCD-NY, 14.06. 2018

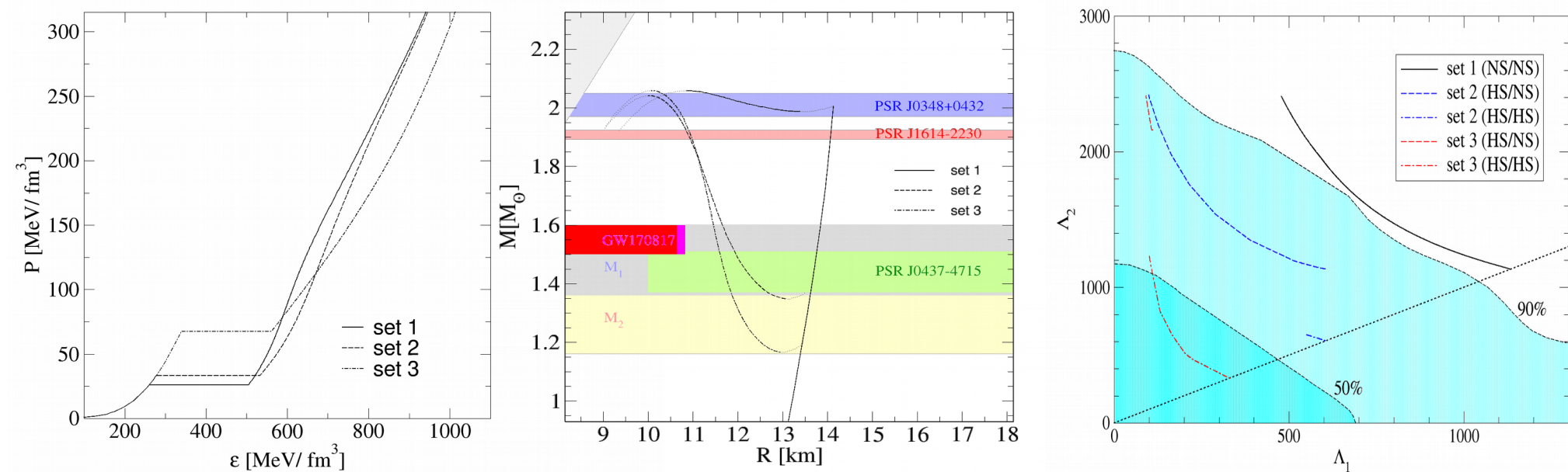


Other examples: Multi-polytrope and multi-CSS model

V. Paschalidis et al., PRD 97 (2018) 084038; [1712.00451]

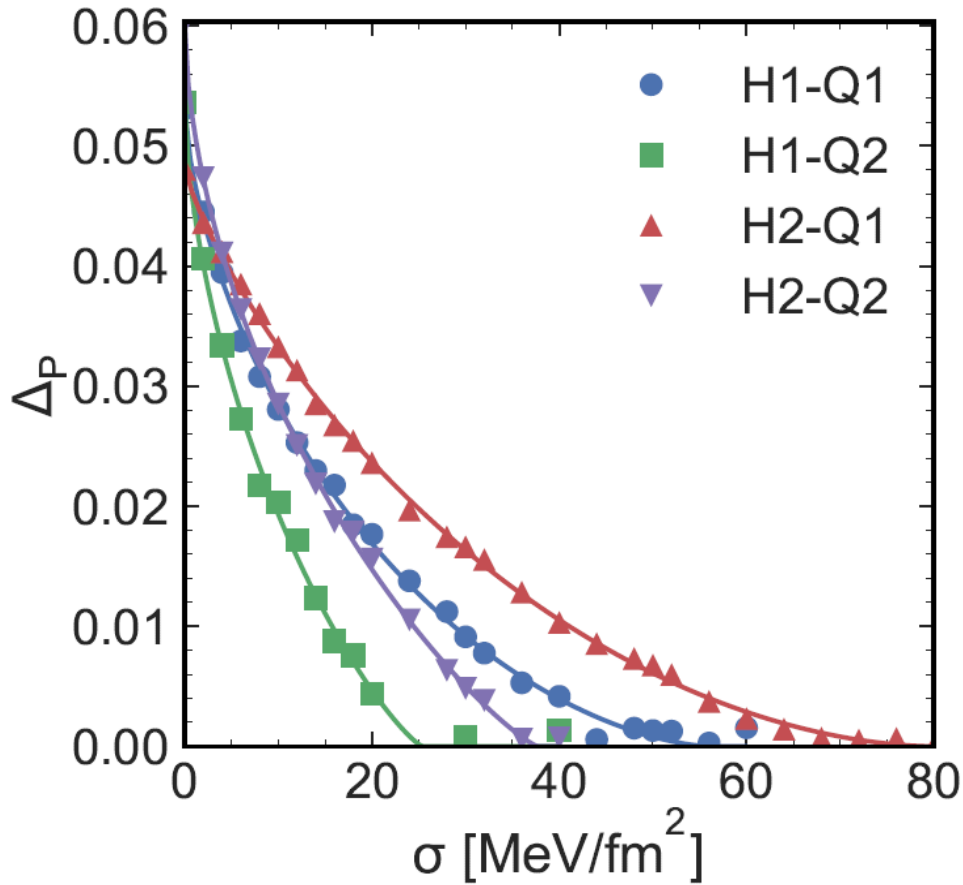


Nonlocal NJL model (with interpolation), D. Alvarez-Castillo et al. [1805.04105]



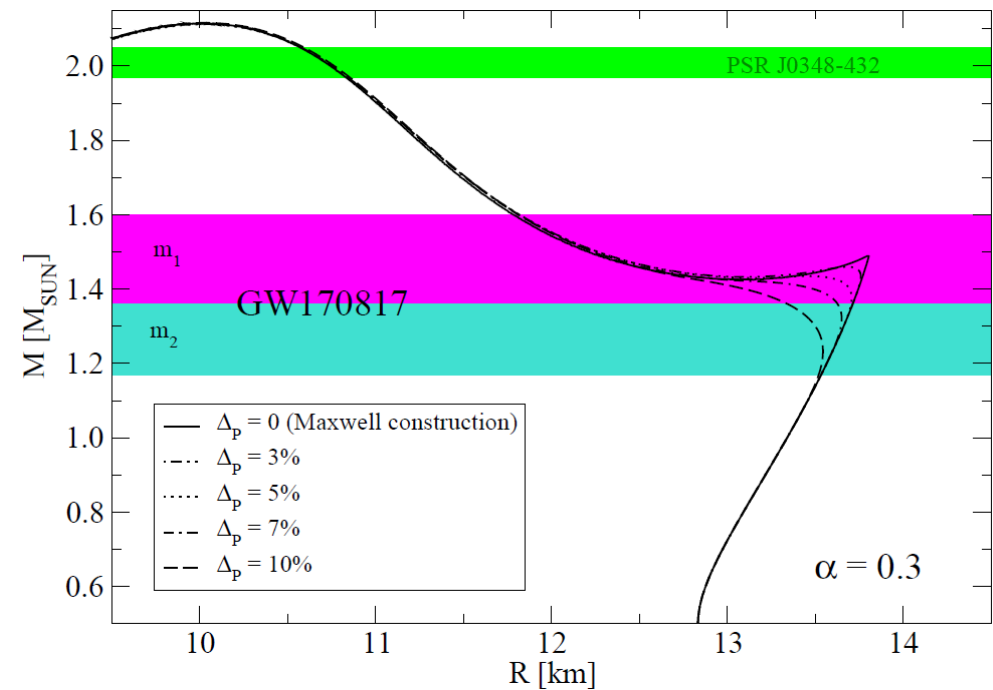
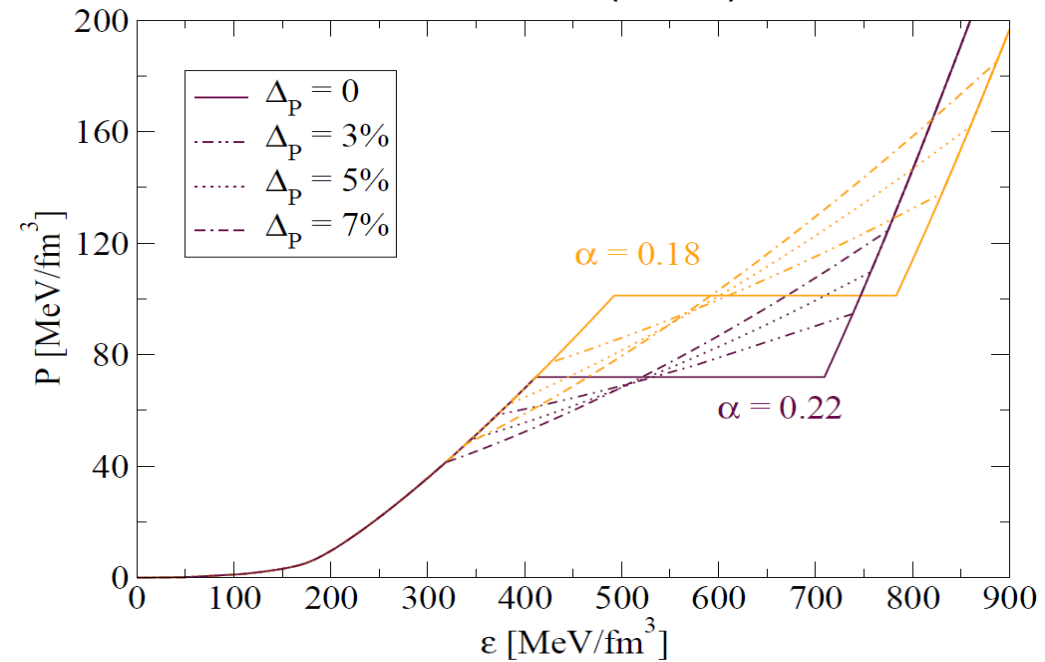
Effect of a mixed phase: KVOR_cut2 – SFM_ $\alpha=0.3$, A. Ayriyan et al., 1711.03926
 PRC 97 (2018) 045802

Small surface tension – small structures



K. Maslov, N. Yasutake et al. (in prep.)

Pasta structures
 do not destroy the HS-NS merger alternative



CEP in the QCD phase diagram: HIC vs. Astrophysics

