## One hundred years of Supernova Science Celebrating the discovery of SNe by Knut Lundmark in 1925 August 18-22 2025 Stockholm, Sweden Constraining Type Ia supernova

## progenitors using dynamical age tracers in host galaxy discs



Artur Hakobyan, A. Karapetyan,

L. Barkhudaryan & M. Gevorgyan

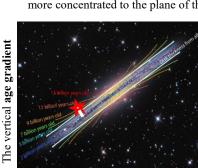
G. Mamon & D. Kunth

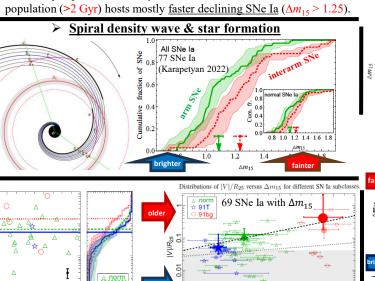


V. Adibekyan

## Heights in edge-on galaxies

The vertical distribution of 91T-like SNe is significantly different from that of 91bg-like SNe, being 2.8±0.03 times more concentrated to the plane of the host disc.

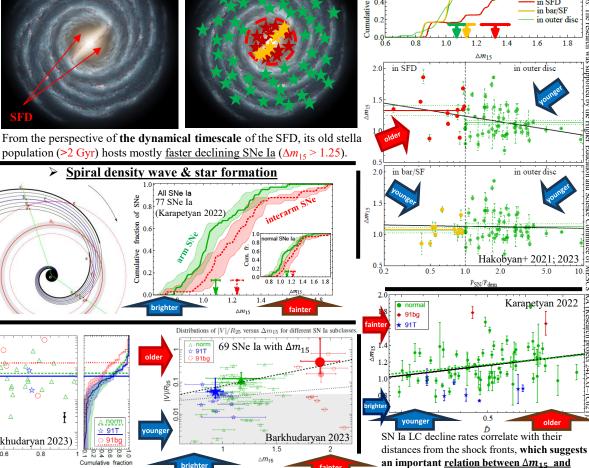




☆ 91T

197 SNe Ia in total (Barkhudaryan 2023)

Star formation deserts (SFDs)



ages of SN Ia progenitors

normal SNe Ia