

# Galactic rotation curves with thermodynamic gravity

Máté Pszota

in collaboration with

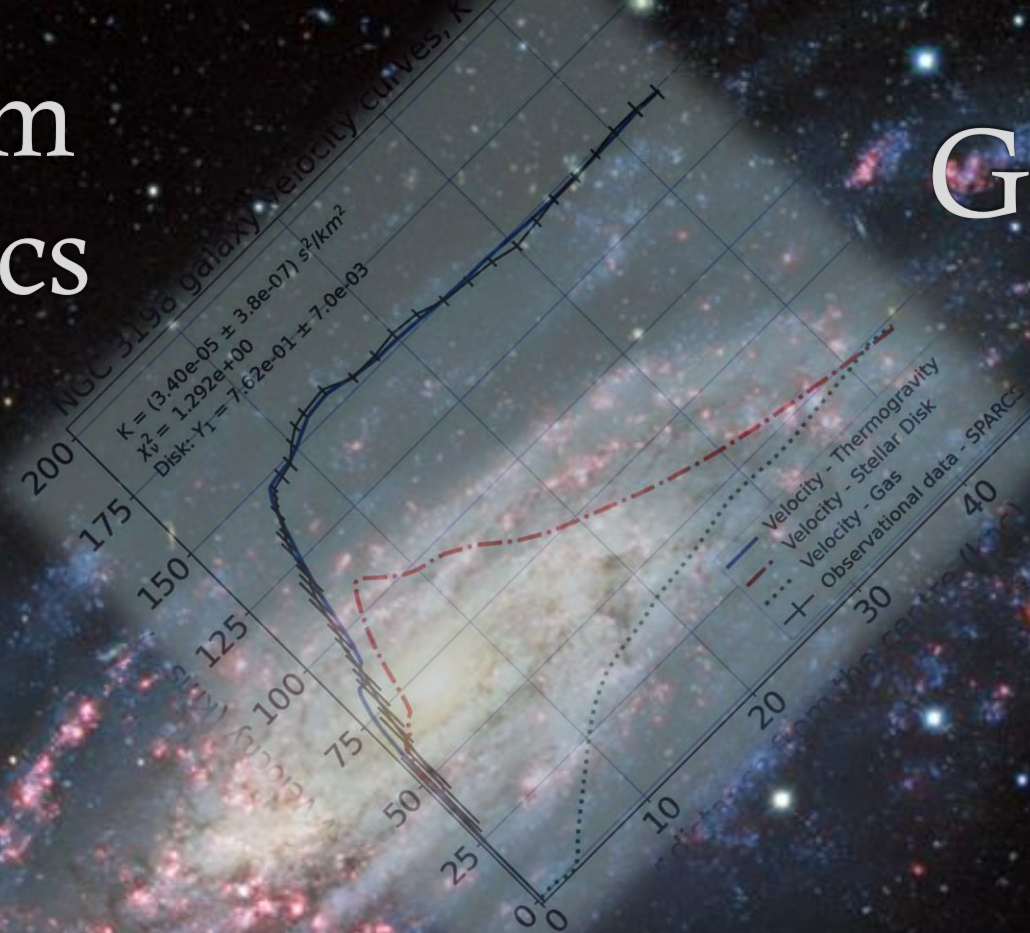
Péter Ván



ELTE EÖTVÖS LORÁND  
UNIVERSITY

# Nonequilibrium thermodynamics

# Gravity



$$u = e - \varphi - \frac{\nabla \varphi \cdot \nabla \varphi}{8\pi G \rho}$$

$$\Delta \varphi = 4\pi G \rho + K(\nabla \varphi)^2$$