

Predicting the limits of the ELT

Defensio

Alarich Herzner

Supervisor: Univ.-Prof. João Alves, PhD
Co-Supervisor: Dr. Kieran Leschinski, MSc

University of Vienna, Faculty of Physics

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Outline

- 1 Introduction
 - Goals
 - Action Plan

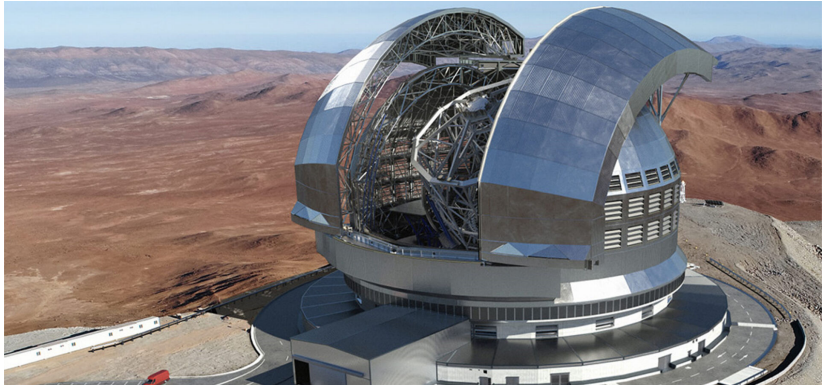
Goals

Primary objective

Estimate reliability limit for future IMF studies in the galactic centre using the ELT!

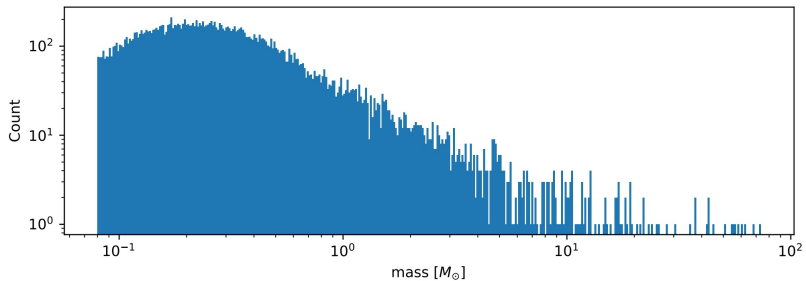
... what?

ELT

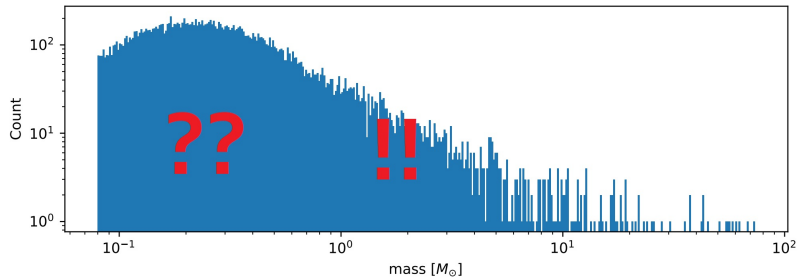


<https://cdn.eso.org/images/banner1920/telescope-dome-landing.jpg>

IMF



Reliability Limit



Motivation

- Universal IMF?
- estimate number of lower-mass stars
- understand star formation process
- N-body simulation with $N \gg 1$
- Clustering of time-dependent data

Action Plan

- I Simulate stars
- II Observe stars
- III Analyze
- IV Measure performance