

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
 - Goal and Motivation
 - Action Plan

Goal and Motivation

Goal

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

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