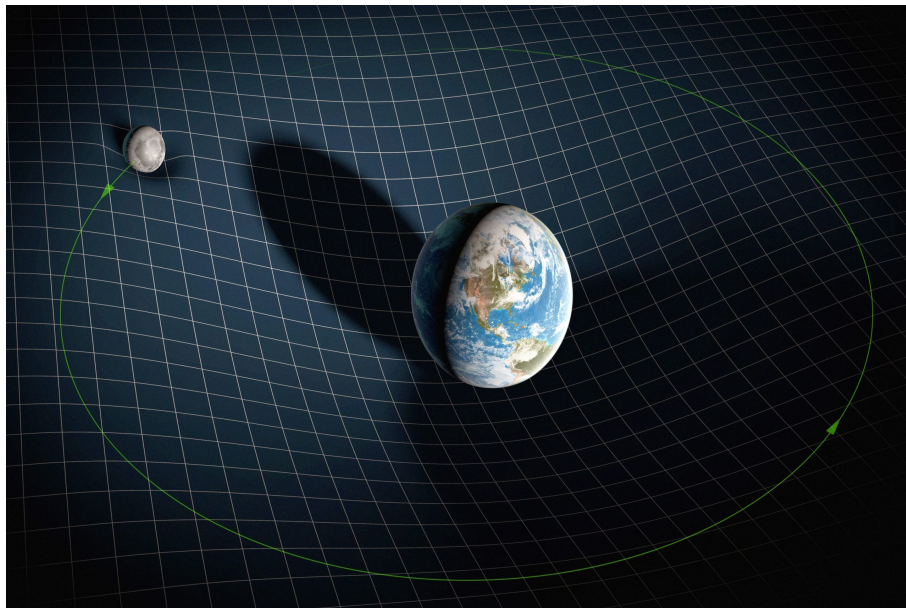




Faculty Of Sciences

# **Dynamical analysis of a dark-matter halo and galaxies in cosmological, hydrodynamical simulations.**



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## Abstract

Keywords:

# Chapter 1

## Introduction

### 1.1 Cosmology

#### 1.1.1 Cosmological parameters

$$1 + z = \frac{1}{a} \tag{1.1}$$

$$\Omega_m(z) = \frac{\Omega_{m,0}(1+z)^3}{\Omega_{m,0}(1+z)^3 + \Omega_{\Lambda,0}} \tag{1.2}$$

#### 1.1.2 Unit system

$$kpc, M_{\odot}, Gyr \tag{1.3}$$

# Chapter 2

## Methodology

# Chapter 3

## Results and Discussion

# Chapter 4

# Conclusion

# Appendix A

## Appendix

### A.0.1 Scripts



# Bibliography