Meeting 1 Notes Peter Fisher Jan. 13, 2021 Today

First half

- Big Picture
- Organization
- 5 m break
- Some preliminaries

0. Big Picture

- 1. Universe from CMB to XDF (slide 1, slide 2)
- 2. QGP to galaxies to Earth (slide 3)

1. Organization

- a. Structure
 - Syllabus reading, deep dive topics (slide 4)

7:05 pm start

35 m - discussion of weekly chapter

5 m - break

35 m - deep dive topic

b. Questions

In advance helps

Will give opportunities or you can speak up

will occasionally ask for 15 uninterrupted minutes

c. Reading

Text - "First Three Minutes" First Chapter for next week Feel free to read ahead Glossary in back Math topics optional Will post additional readings, optional

d. Math

GR, particle physics is highly mathematical Math -> intuition as subject develops Will avoid us of math, speak in terms of proportions, trends, qualitative

Break here

- 2. Some preliminaries
 - Steven Weinberg and "The First Three Minutes"
 - EM radiation
 - Telescopes
 - Redshift
 - Distances