



Snowmass 2021 CF7

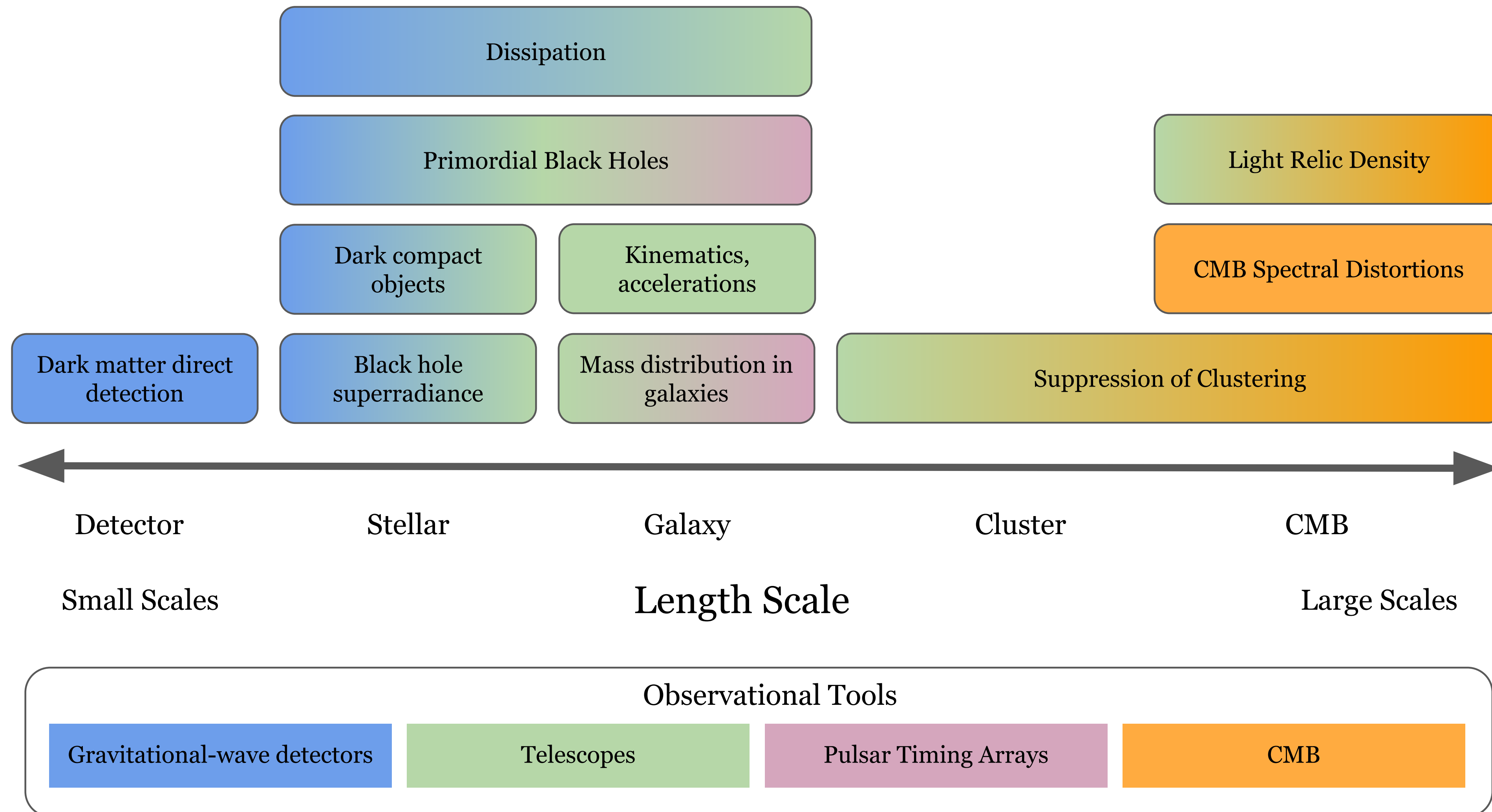
Cosmic Probes of Fundamental Physics

Probing dark matter with small-scale astrophysical observations

**Ling Sun on behalf of CF7 WP5 authors
Check Point Meeting, Mar 10, 2022**

Overview

We lay out the case for **small-scale structure and compact objects** as dark matter probes, integrated with complementary probes on larger observational length scales, using various observational tools.



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Timeline & Status

- ✓ Dec 2021: kickoff
- ✓ Jan 1-15, 2022: discuss the structure & draft the skeleton
- ✓ Jan 15-Feb 15, 2022: draft individual sections; share the document more widely and invite more people to contribute
- ✓ Feb 15-28, 2022: work on Executive Summary; work with more contributors; start to address overlaps, gaps, and cross-references
- ➡ Mar 1-15, 2022: working with other WP captains and more contributors to coordinate cross-references and address comments.
- ➡ Mar 16-31, 2022: aim to have a mature draft ready by the end of March

Questions & Discussion