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Exploring the edge

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Propositions accompanying the thesis

Exploring the edge

1. The boundaries of galaxy clusters can be measured using targeted weak lensing observations. (Chapter 2)
2. The impact of dark energy models on the dynamics of collapsing material is within the precision of current measurements. (Chapter 3)
3. The cosmic web shapes the edges of galaxy clusters. (Chapter 4)
4. Wide electromagnetic surveys are required to extract the most information from gravitational-wave observations. (Chapter 6)
5. There is a non-zero probability that the nature of the dark sector will always be a mystery.
6. In the era of precision cosmology, the exact numerical value of most cosmological parameters is unimportant.
7. (Semi-)analytical models are instrumental in understanding the dynamics of a system.
8. Science is a cultural product. The zeitgeist dictates its general interests, focus, and methods.
9. It is essential to advocate the value and beauty of the more fundamental sciences for them to remain relevant.
10. There are lessons to be learned from experts from all walks of life.

Omar Contigiani
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