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## **Constructing an Attenuation Proxy Based on state-of-the-art cosmological simulation SIMBA.**

*Friday, 21 February 2025 17:12 (5 minutes)*

The LSST survey, with its first observations anticipated in May 2025, presents not only extraordinary opportunities but also significant challenges. A particularly compelling question is whether it will be possible to estimate or at least constrain the physical properties of dust, despite the survey's focus solely on the optical range. Dust plays a crucial role in the processes governing galaxy evolution, making this investigation particularly important. Leveraging the latest research and data from the state-of-the-art cosmological simulation SIMBA—which is among the few simulations to comprehensively account for both dust and gas in galaxies, I aim to find an answer to this question.

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