

## Analysis of seismic ambient noise at the Lausitz ET candidate site

The Lausitz is the third potential site to host the Einstein Telescope (ET). Site characterization is in progress since late 2023 based on the ongoing survey for a planned underground laboratory „Low Seismic Lab“(LSL). The LSL will be a central part of the Deutsche Zentrum für Astrophysik (DZA, German Center for Astrophysics) which is currently being established. Site requirements for the LSL follow ET guidelines and include measurement and identification of ambient noise sources and geophysical, geological, and hydrological 3D characterization of the future site. The surveyed region covers an area large enough to host both geometry options (triangle- or L-configuration), entirely located within the mostly undisturbed Lausitzer Granodiorite Massif.

In this talk, I focus on the ambient seismic noise study, including surface arrays and borehole recordings. I will discuss the results of past and ongoing deployments, and future campaigns to extend the area.

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