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The German Centre for Astrophysics and the Einstein Telescope

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The new German Centre for Astrophysics (DZA) to be founded in 2025 is a bold initiative to advance multi-messenger astrophysics including gravitational wave research. Central to the DZA's mission is the Einstein Telescope, a next-generation gravitational wave observatory that will transform our understanding of cosmic phenomena. Part of the DZA's work is the site investigation for the Einstein telescope in Lusatia, Germany. By integrating cutting-edge technology, data science and international collaboration, the DZA aims to address fundamental questions about the Universe while contributing to regional development in the central part of Europe on the German-Polish border. This talk will explore the scientific vision, technological innovations and strategic importance of the DZA and the Einstein Telescope in shaping the future of astrophysics.

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