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☒341☒ **DARWIN - a next-generation observatory for dark matter and neutrino physics**

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Two open questions in physics are the nature of dark matter and the fundamental nature of neutrinos. DARWIN is a next-generation experiment aiming to reach a dark matter sensitivity limited by the cosmic neutrino background. The core of the detector will be a TPC with 40 t of liquid xenon as dark matter target. The large xenon mass, the ultra-low radioactive background and the low energy threshold will allow for a diversification of the physics programme beyond the search for dark matter particles: DARWIN will be a true low-background, low-threshold astroparticle physics observatory. I will present the status of the project, its science reach, and discuss the main R&D topics.

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