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DLEAD - Detectable leptogenesis and explaining dark matter non-detection using non-standard cosmology and multi-component dark matter models

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Space exploration and research, particularly into the physics of our galaxy and its operation, are growing. However, dark matter (DM), whose existence has been confirmed through extensive evidence and measurements, remains a mystery. Supported by the Marie Skłodowska-Curie Actions programme, the DLEAD project will explore novel parameter spaces to uncover the particle nature of DM and expand our understanding of it. The project will investigate three scenarios that current WIMP and FIMP models cannot fully address, due to difficulties in detection or significant constraints. It will apply a range of solutions and methodologies to generate new insights. Together, these efforts are expected to reveal new insights into the fundamental composition of the universe.

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Total EU Contribution: Euro 209 438,28
Call ID: HORIZON-MSCA-2024-PF-01
Project Duration in months: 24
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