

**Seminarium Zakładu Fizyki Teoretycznej
Departament Badań Podstawowych
Narodowego Centrum Badań Jądrowych**

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NCBJ, sala 404, Pasteura 7

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"Dark matter protected by the CP symmetry and its evolution in the early Universe"

ABSTRACT:

Dark matter (DM) candidates appear in a number of models that extend the scalar sector of the Standard Model. Commonly, the stability of DM in such models is guaranteed by a symmetry of the Lagrangian. In this talk I consider a model which allows one to stabilise DM with the CP symmetry of a more general form. Furthermore, this model introduces by construction an interesting interaction pattern in the dark sector. I discuss, how this novel feature affects the thermal evolution of DM in the early Universe and the perspectives of indirect detection.

Serdecznie zapraszamy,
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