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ICTP - East African Institute
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Public Seminar

DARK MATTER AND BOHR-SOMMERFELD ENHANCEMENT – WORK IN PROGRESS

Speaker: prof. Musongela-Kikunga-Mafuta (UNIKIN, DRC)



Abstract

We study a dark matter model proposed by TROJANOWSKI, BRAX and VAN DE BRUCK. It contains a scalar field which couples to dark matter and standard model particles in a non trivial way. The enhancement factor is approached using a second order approximation via the WKB method.

Tuesday, 23 November 2021 at 16:00 (GMT+2)

EAIIR, top floor (EINSTEIN Block, Former “KIST2” Building of UR-CST, Nyarugenge)

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* Short Bio of Prof. Musongela

- Born in DRC
- University studies and Phd in Belgium. Postdocs at ICTP in Trieste Italy and at AIMS in Cape Town South Africa
- Currently Associate Professor at the Physics Department, Faculty of Science, University of Kinshasa
- Fields of interest: general relativity, quantum mechanics and their applications (cosmology, coherent states, etc)

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