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NOVEL SEARCHES on GRAVITY , DARK MATTER and GRAVITATIONAL WAVES with ATOM INTERFEROMETRY: an OVERVIEW

A series of new experiments, so called “Atomic Experiments”, are in project or being built in the world aiming to explore Dark Matter and Gravity. Among these new projects:

The Zhaoshan long-baseline Atom Interferometer Gravitation Antenna (ZAIGA) in China.

the Matter-wave laser Interferometric Gravitation Antenna (MIGA) Experiment in France.

As well as experiments already running or in projects in Italy, UK and USA.

The goal is to gather these research interests within a worldwide collaborative effort, AEDGE (Atomic Experiments for Dark Matter and Gravity Exploration)

Session Classification: MORNING SESSION 4, PLENARY LECTURES