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Muography developments within the MuAR project: advances in simulations and new detectors designs

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After the successful development of AMIGA and MuTe, both integrally designed, funded and built in Latin America, we created MuAr, a new collaborative project for the development of muography applications in geophysics, mining prospecting and safeguard.

We focus this project on the development of innovative muon detector designs, such as our two new muographers prototypes: *Mudulus*, a modular and portable detector, and *Musaic*, an innovative design based on fully autonomous, small, portable and independent tiles, that can be arranged in a panel with the desired size and shape. These designs are strongly supported by the development of *Meiga*, an intensive computational framework for muography.

In this contribution, I will briefly describe the current status of our developments within the MuAr project, the main scientific and technological motivations, some of the identified targets and our future perspectives.

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