

# PowerMEIS: RBS/MEIS simulations using cloud computing

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In this work we show the integration of PowerMEIS[1] with a web server, which provides to users worldwide a platform to make and analyse RBS/MEIS simulations through any modern web browser. The web site is hosted on a server comprised of an i7 Intel Processor with 12 cores and 32Gb of DDR4 RAM. PowerMEIS parallelized algorithm handles simulations from multiple users simultaneously when needed, while it distributes a single simulation between multiple cores when idle. This platform is used for all MEIS fittings in the 2<sup>nd</sup> Round Robin Table for MEIS, and details about the employed procedure will be discussed.

## References.

[1] Sortica, M. A., Grande, P. L., Machado, G. & Miotti, L. *J. Appl. Phys.* **106**, 114320 (2009).