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Solid Earth Discussions

Interactive comment on "Measurement of absolute gravity acceleration in Firenze" *by* M. de Angelis et al.

Anonymous Referee #2

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This paper reports on an absolute gravity measurement performed in Fiorenze. Actually, it is a very thoroughly written technical report. However, there is no novel aspect. The reason why the meauserements were performed is interesting, but this is not the focus of the paper. Chapter 2 is a necessary part of a technical report, but is not of wider interest of the scientific community. The noise study does not really contribute w.r.t. gravity determination. Sections 3.1 and 3.3 report mainly on facts and processing steps that are widely known, at least to specialists. The VG is another issue: The influence mainly depends on the height where your gravity value is refered to. Its effect cancels out if you choose a specific point along the way of free fall. The problem then is tying this point to a better accessible reference point. However, this can be done by relative gravity measurements using conventional spring meters. The paper as such is well written and clear, and all evaluations have been done on a state of the

art level. However, new aspects or novel approaches are missing and thus I have really a problem with accepting the paper for publication.

Interactive comment on Solid Earth Discuss., 3, 43, 2011.