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The vibrational characterization of the ALBA Synchrotron Light Source experimental area slab

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The vibrational response of the experimental area is one of the major importance on 3rd generation synchrotron light sources. A detailed study of the ALBA experimental area vibrational response has been carried out. The objective of the study is the characterization of the response of the experimental floor area in function of the frequency and value of the excitation and distance to the source. In the present paper the methodology applied, instrumentation and the results are presented in detail. First results on the topological evolution of the slab, based on survey and alignment techniques are also presented.

Primary author: Mr MIRALLES, Lluís (ALBA/CELLS)

Co-author: Mr RIBO, Llibert (ALBA/CELLS)

Presenter: Mr MIRALLES, Lluís (ALBA/CELLS)

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