

# **Site geotechnical and vibrational characterization for the design of the foundations of the ALBA project**

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The stability of the experimental and accelerator foundations are of major importance on 3<sup>rd</sup> generation synchrotron light sources. A detailed study of the site for the future Synchrotron light facility ALBA has been carried on. Here are revised the soil geotechnical characterization method and results, experimental setup for on-line long term soil monitoring and results, vibrational analysis experimental setup and results. We are presenting the solution adopted for the foundations of the beam lines and complex of accelerators critical floor area based on the experimental results obtained.