

## Direct time-domain computation of wake fields at third harmonic module of the European XFEL

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In this report we estimate the long- and the short-range wake functions at the third harmonic module of the European XFEL. The estimations are based on direct time-domain calculations with code ECHO. We use rotationally symmetric approximation of the geometry (without RF couplers). The complete cryomodule with 8 cavities including steps and bellows is considered.

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