

RF Synchronization System Plans for The European XFEL

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The European XFEL will require synchronization of RF, optical and digital subsystems with accuracies reaching levels down to 10 fs. The entire synchronization system will consist of both RF coax cable and optical distribution links working complementary to assure the required performance and availability. The plans for the RF part of the synchronization system will be covered by this contribution. The RF synchronization system will consist of the Master Oscillator and coax cable signal distribution system. The basic ideas for the Master Oscillator design and the planned layout of the distribution links will be presented together with estimated performance.

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