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## A possible RF Design on the 35 GHz accelerating structure for the Compact Light XLS project.

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In the framework of the Compact Light XLS project, we have performed a possible RF design on the 35 GHz accelerating structure in order to linearize the longitudinal phase space. Detailed RF estimations and the wake-field effects on the beam dynamics are also reported. The numerical electromagnetic simulations have been carried out by using the code HFSS in the frequency domain and CST Microwave Studio in time domain.

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