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## Impact and solutions for electrical pollution and harmonics in Linac Accelerators used as injector in Synchrotrones

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This work will show some electrical pollution and problems (internal and external), met on tunisian Facility , equipped with a LINAC type of Electron beam accelerators (Power:5Kw; Energy:10 MeV) used in many installation as an injector in synchrotrones, and we will discuss some solutions for this electrical problems. We will present some damages that can arised on systems of this type of facility, due to electrical pollution. With an accurate study, real measurements (analyzer three-phase networks) and computer simulations we will show the existence of significant levels of electrical harmonics, and finally we will discuss possible solutions : passive filtering or active filtering.

### Summary

Electrical pollution  
Electrical harmonics  
E-Beam Injector

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