

R&D for compact TeV accelerator

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The development of TeV-class compact accelerators requires ultra-high electric fields, ultra-high magnetic fields, and ultra-high beam focusing technologies. Furthermore, energy recovery technology is also crucial, and the development of accelerators incorporating all these features is highly desired.

Particularly for decaying particles like muons, it is desirable to accelerate them as quickly as possible and recover their energy as rapidly as possible.

I would like to introduce our examination of concepts that enable these capabilities.

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