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Traveling wave SRF cavity status and R&D plan.

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Utilization of a Superconducting Travelling Wave Acceleration (STWA) structure with small phase advance per cell for future high energy linear colliders such as ILCs may provide an accelerating gradient 1.2–1.4 times larger than a standing wave structure. In the present paper, the status of development of high gradient STWA for collider application is presented.

Primary author: YAKOVLEV, Vyacheslav (Fermilab)

Presenter: YAKOVLEV, Vyacheslav (Fermilab)

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