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Transformer recharging with alpha channeling in tokamaks¹ NATHANIEL FISCH, Princeton Plasma Physics Laboratory — Transformer recharging with lower hybrid waves in tokamaks can give low average auxiliary power if the resistivity is kept high enough during the radio frequency recharging stage. At the same time, operation in the hot ion mode via alpha channeling increases the effective fusion reactivity. It appears that these two speculative, but large cost-saving steps, are compatible.

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