

Closed Actions, SPL Steering Group

Assigned to	Start date	Description	State	Result
FrankGerigk	2007-10-29	evaluate if 704 MHz is the optimum frequency and consider 1.4 GHz		presentation ↗ edit
FrankGerigk	2007-11-09	find old arguments for 704 MHz choice.		SPL meeting 71 ↗ , see presentation ↗ the main argument was that higher frequencies do not yield higher gradients and that an additional frequency will only increase the cost of the RF system (at this time it was still assumed that Linac4 uses 704 MHz in its high-energy part), furthermore test results of 704 MHz low-beta cavities seemed encouraging. It was pointed out that each frequency jump entails longitudinal re-matching, which means lowering the synchronous phase and therefore lowering the acceleration efficiency. no information from CPI received, Toshiba is interested in a development for 1408 MHz, they could relatively easily adapt their 1300 MHz single beam klystron to 1408 MHz, it would be more effort to have a multi-beam klystron, an average power of 250 to 500 kW seems realistic edit
FrankGerigk	2007-11-09	information on 1408 MHz klystrons from CPI/Toshiba		edit
Main.Everyone	2007-11-26	establish a man-power list for each section (beam dynamics, RF system, TS, cryogenics, cavity development, cavity testing) and send the data to R. Garoby		edit
VittorioParma	2007-11-26	check compatibility of ILC/TTF cryo-modules with 704 MHz cavities		seems possible, but modifications will be necessary edit
EdmondCiapala, OlivierBrunner	2008-09-24	contribution on RF hardware for SPL summary document on parameters		done edit
AlessandraLombardi	2008-10-17			edit

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Main.Madeleine, Main.Catin	2008-10-31	verify the optimum beta values for the SPL cavities set up INDICO web-site for SPL collaboration meeting	edit
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-- FrankGerigk - 29 Oct 2007

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