



HIE-ISOLDE Project: Phase 3

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for the HIE-ISOLDE Project Team

ISOLDE Collaboration Committee Meeting

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STAGED INSTALLATION OF LINAC

- REX accelerator (existing): $W = 3 \text{ MeV/u}$



6x cryomodules
32x QWRs
8x solenoids

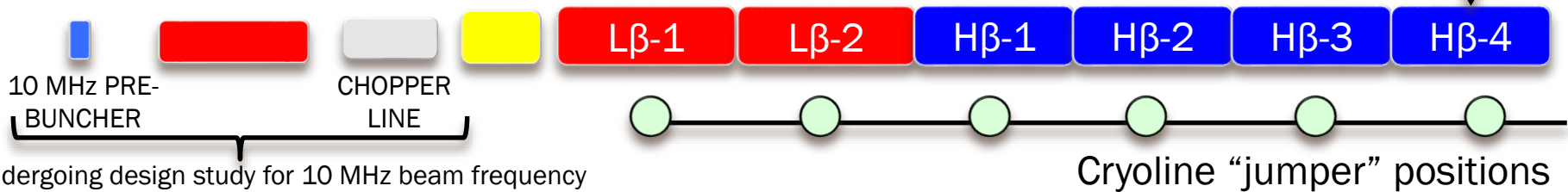
- HIE Phase 1 (2015/2016): $W = 5.5 \text{ MeV/u}$



- HIE Phase 2 (2017/2018): $W = 10 \text{ MeV/u}$

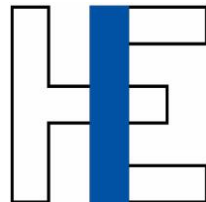


- HIE Phase 3 (??): 10 MeV/u



Undergoing design study for 10 MHz beam frequency for time-of-flight particle ID requested by experiments.

KEY: RFQ IHS 7G1,2,3 9GP $\beta_g = 6.3\%$ $\beta_g = 10.3\%$
LOW- β CRYO. HIGH- β CRYO.



Cost of the Machine

Phase 3				
R&D	Design	SC linac	HEBT	I & C
0	0	265	0	30
0	0	100	0	20
0	0	80	0	20
50	50	30	0	0
0	0	1'373	0	0
0	0	415	0	0
0	105	0	0	75
0	0	1'525	0	0
0	0	255	0	0
0	0	0	0	0
0	0	59	119	0
0	0	10	525	0
0	0	0	0	0
0	0	250	166	0
0	0	50	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
50	155	4'412	810	145
		5'572		



Thank you!

