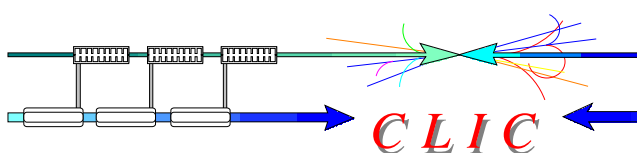


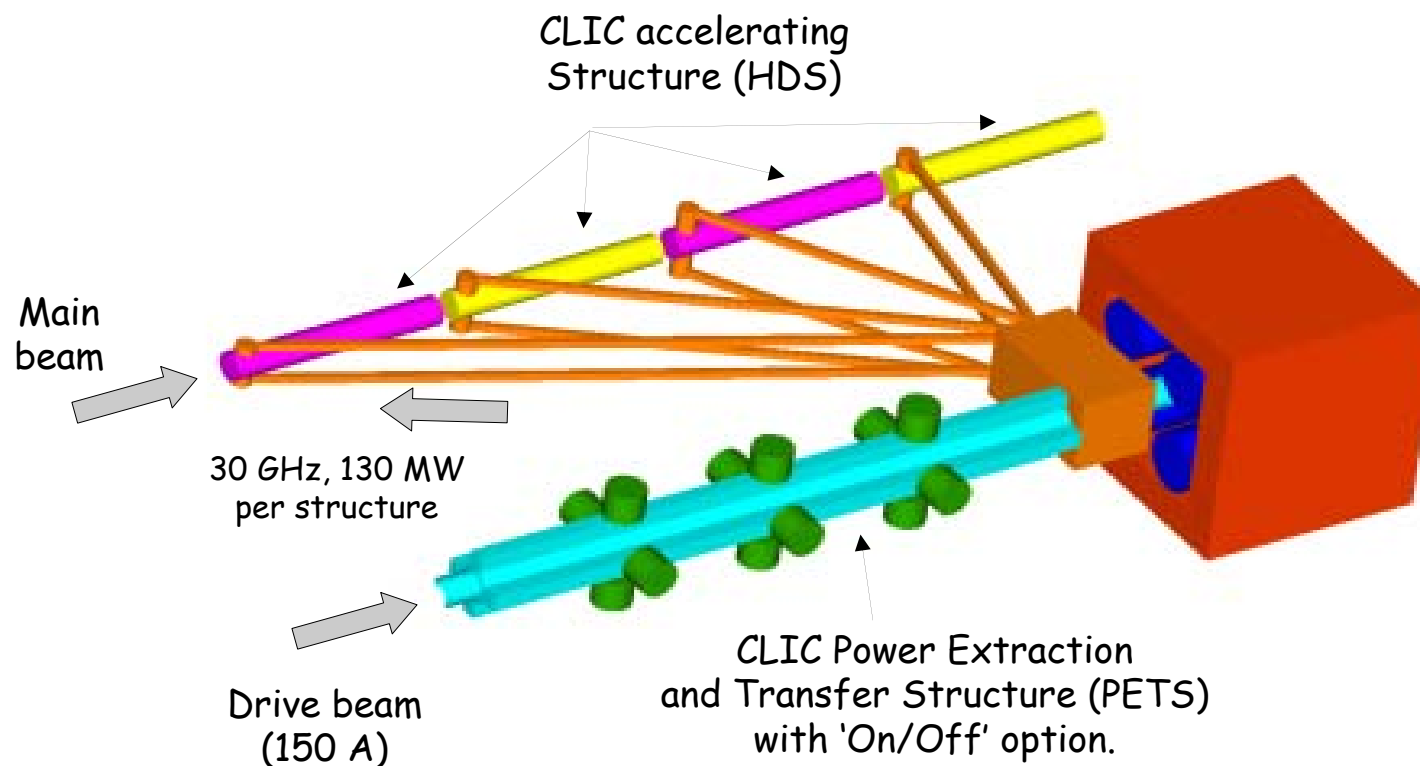
Work package 5: Relevant CLIC linac sub unit with beam.

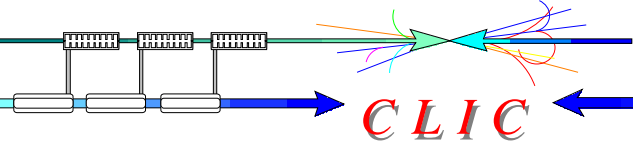


Motivation

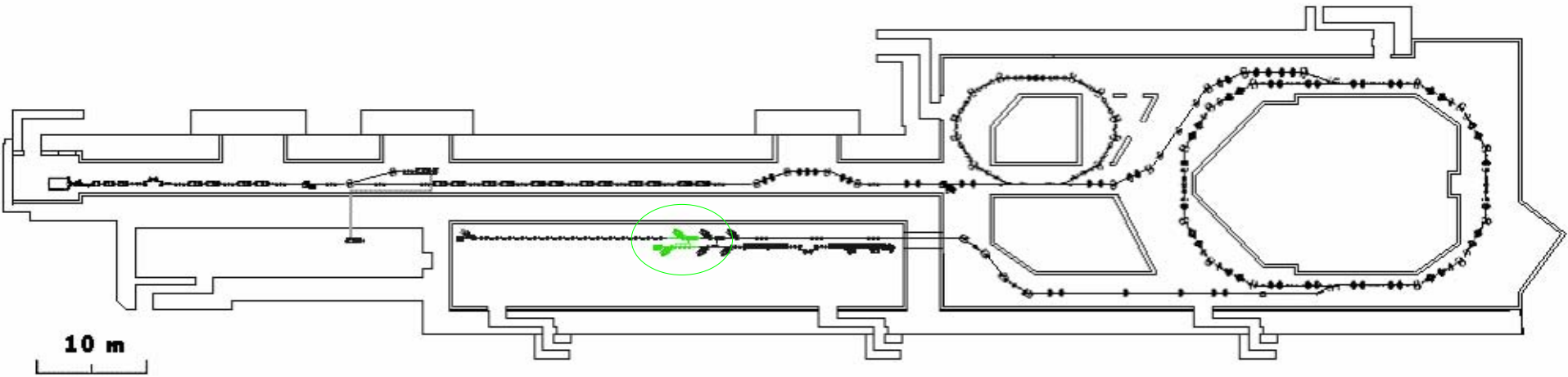
The International Linear Collider Technical Review Committee has listed "the test of a CLIC relevant linac subunit" as a **Ranking 2** task for CLIC study.

CLIC linac subunit layout:





Test CLIC linac sub unit location

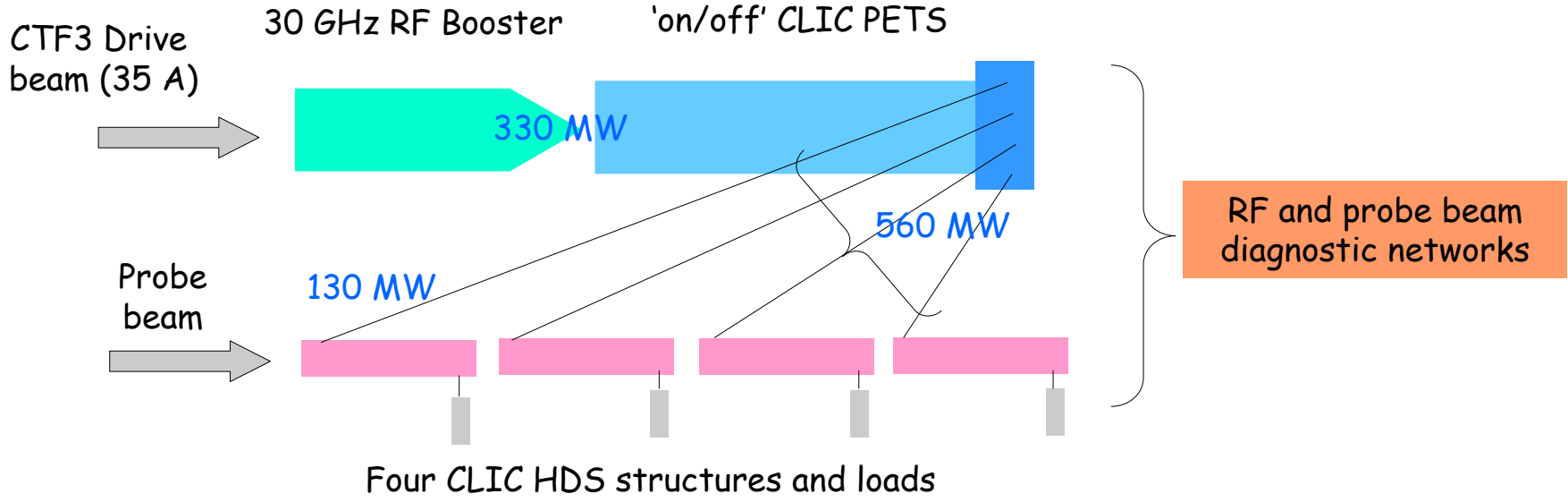


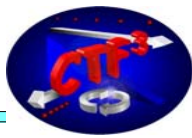


CLIC

Work package description

The requirement is for a fully-equipped test facility to enable the testing of a CLIC linac sub unit consisting of one CLIC PETS with 'on/off' option and 4 HDS structures with the nominal CLIC 30 GHz RF power and pulse length. Since the CTF3 drive beam is only 35 A instead of the 150 A CLIC beam, it will be necessary to use a booster structure to "prime" the CLIC PETS to produce the full power.

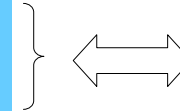




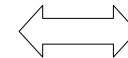
CLIC

List of work package items.

- 'On/Off' CLIC PETS (CERN design)
- Four CLIC HDS accelerating structures (CERN design)
- Booster PETS
- High power waveguide distribution network and RF loads
- Vacuum system and girder
- RF and probe beam diagnostic networks



WP 7.1,72



WP 4

Work package expected resources

- Manpower: 8 man years
- Budget: 1.5 MCHF

Work package schedule.

- Hardware manufacture and installation: end 2007
- Test stand operation: starting 2008