

Machine update...

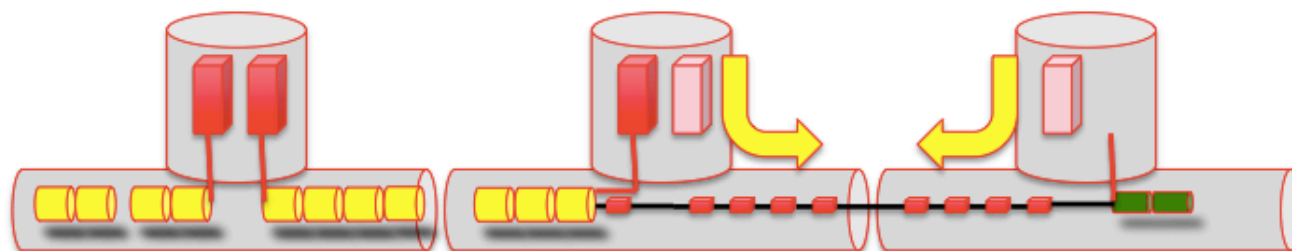
- Joint CFS-ADI meeting Tokyo 8—10.04.14
- <https://agenda.linearcollider.org/conferenceDisplay.py?confId=6342>
 - ▶ Information/planning for Kitikama site development
 - ▶ CFS requirements / timescales and supporting Accelerator Design scope
 - ▶ Very technical
- Key points (for this group)
 - ▶ Location of IR and IR configuration highest priority
 - ▶ Time scale to 'fix' machine geometry ~ 1 year
 - IR location $\pm 100\text{m}$
 - Machine end points $\pm 300\text{m}$
 - ▶ First-phase 250 GeV machine configuration "3rd option" agreed upon
 - ▶ First proposal (KEK) for independent e-driven e⁺ source to "replace" undulator source
 - Same foot print as polarised source
 - Would allow to install undulator-driven polarised source "later"

Energy Phasing: Approach to 1st phase



LINEAR COLLIDER COLLABORATION

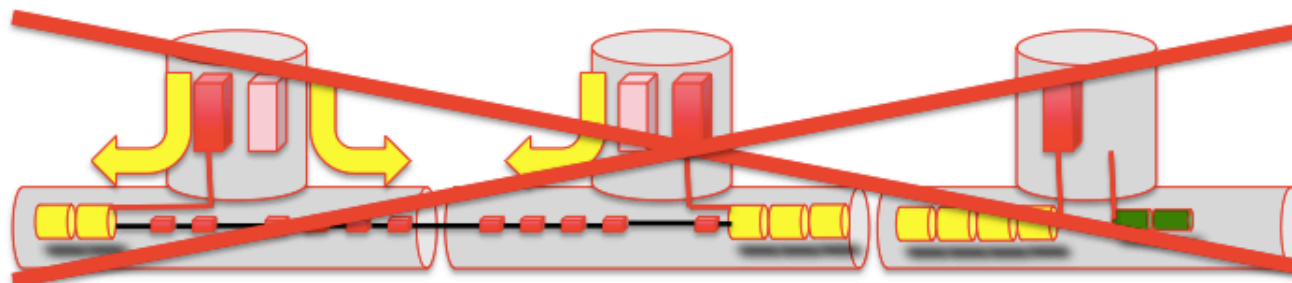
Upgrade Installation



Scenario A:

Fill from upstream

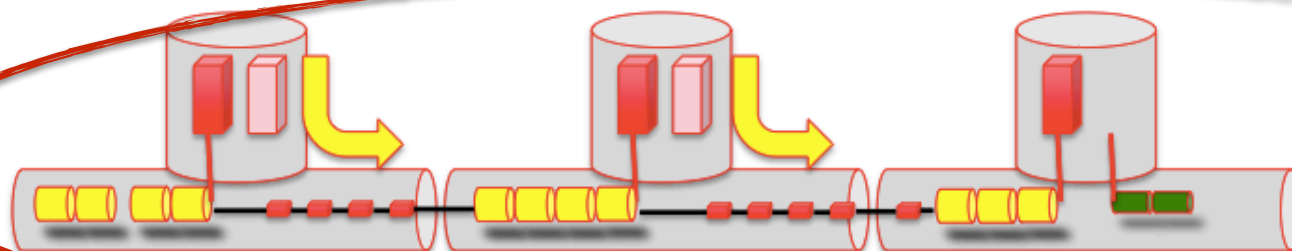
- Optimal for beam dynamics
- Helium transfer line needed
- No spare cryo capacity at PM12



Scenario B:

Fill from downstream

- Worst for beam dynamics
- Helium transfer line needed
- No spare cryo capacity at PM8



Scenario C:

Fill from Shafts

- OK for beam dynamics
- No helium transfer line
- Spare cryo capacities

**PREFERRED
CHOICE**

Benno List