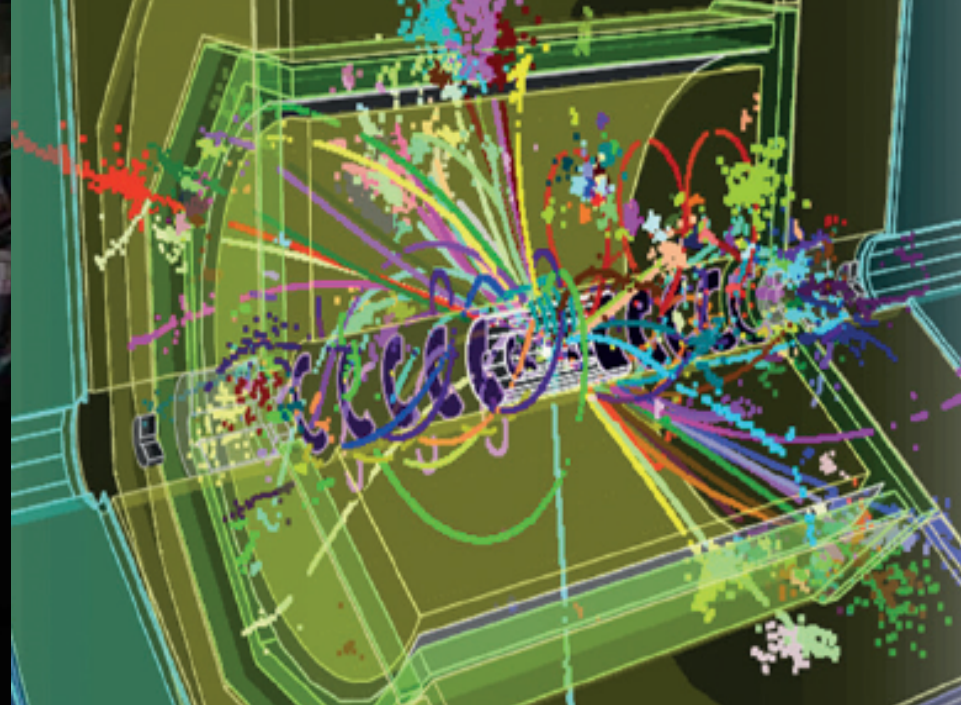
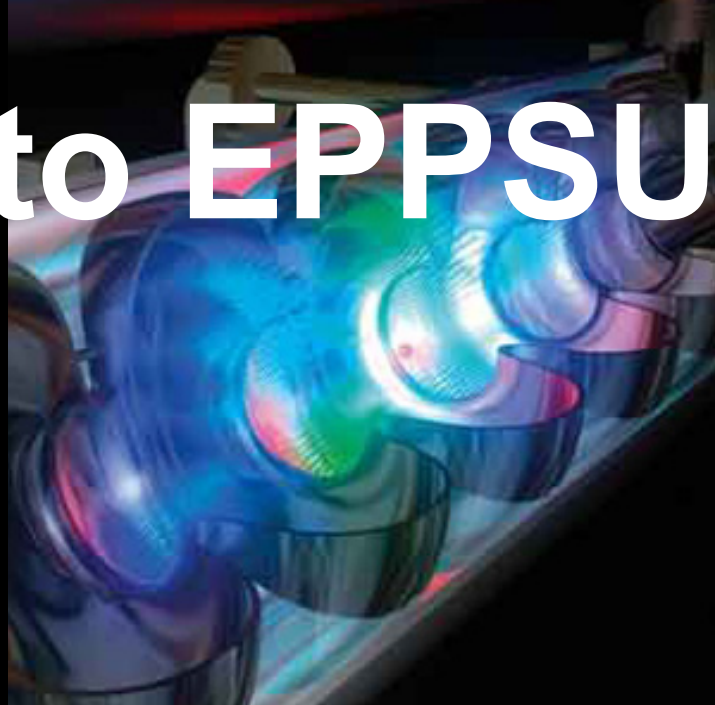
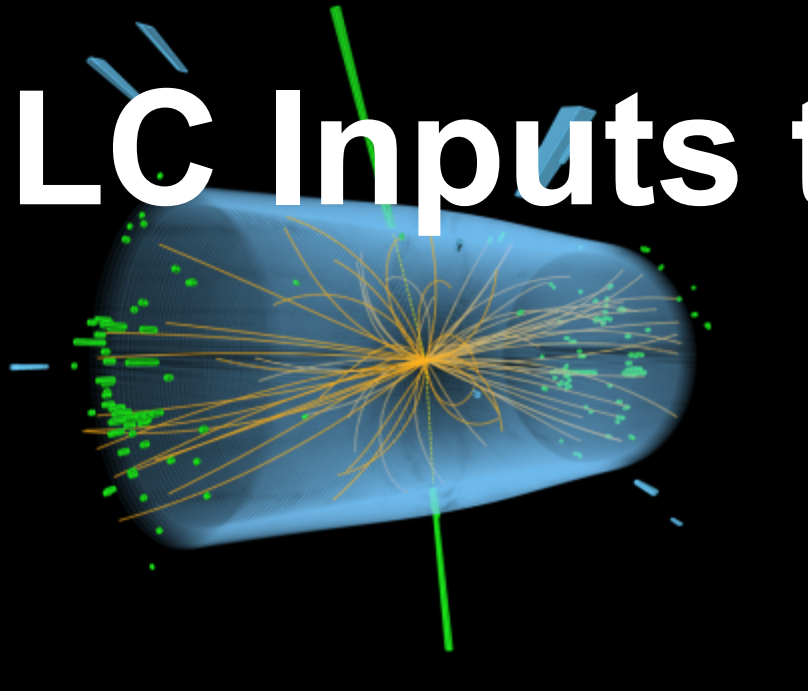


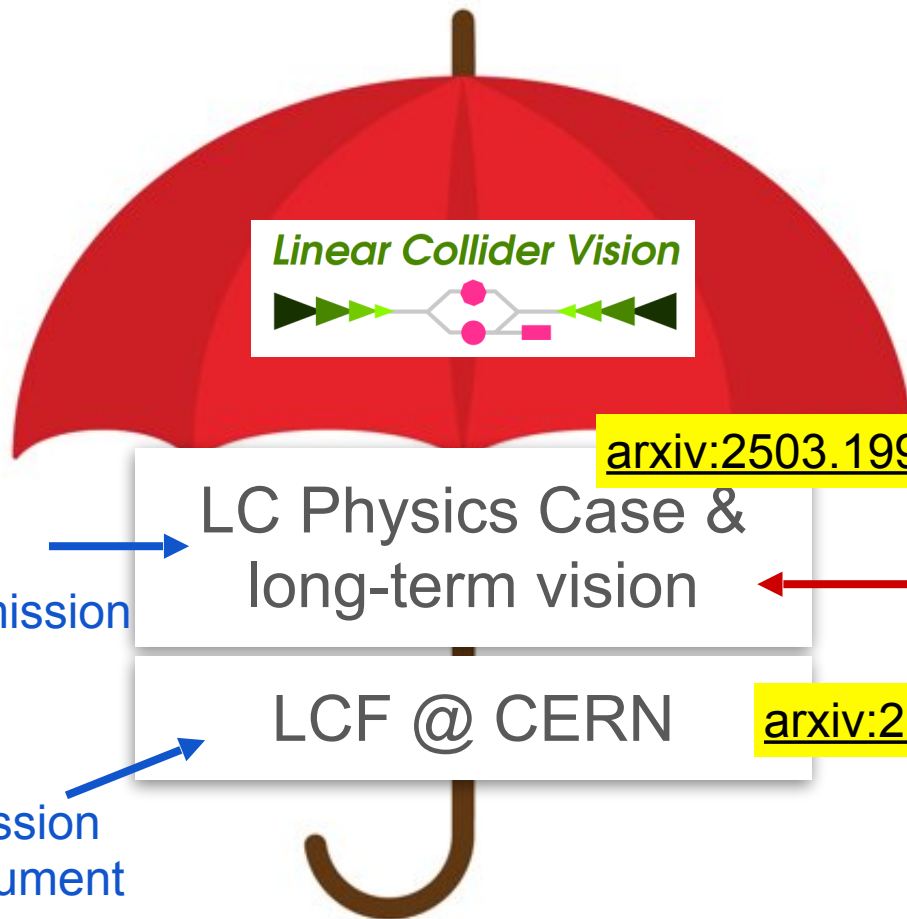
LC Inputs to EPPSU



Jenny List

36th Future Colliders @ DESY meeting

04 April 2025



Linear Collider Vision



LC Physics Case &
long-term vision

LCF @ CERN

arxiv paper &
EPPSU submission

EPPSU submission
& back-up document

[arxiv:2503.19983](https://arxiv.org/abs/2503.19983)

[arxiv:2503.24049](https://arxiv.org/abs/2503.24049)

Technologies
and upgrades

[arxiv:2504.XXX](https://arxiv.org/abs/2504.XXX)

ILC in Japan (IDT)

CLIC at CERN

[arxiv:2503.24168](https://arxiv.org/abs/2503.24168) [arxiv:2503.21857](https://arxiv.org/abs/2503.21857)

C³

[arxiv:2503.20829](https://arxiv.org/abs/2503.20829)

HALHF

[arxiv:2503.23489](https://arxiv.org/abs/2503.23489) [arxiv:2503.19880](https://arxiv.org/abs/2503.19880)

10 TeV Wakefield

[arxiv:2503.20214](https://arxiv.org/abs/2503.20214) [arxiv:2504.01434](https://arxiv.org/abs/2504.01434)

Beyond Collider

<https://cds.cern.ch/record/2927631>

Some comments

this & that

- All documents on previous slide refer to LCVision (independently of site / technology)
- Linear Collider Facility @ CERN => Colloquium next Tuesday
 - 2 interaction points
 - 33.5km tunnel (long enough for 550 GeV in today's SCRF - or 3 TeV with cool copper cavities)
 - equipped for 250 GeV with 2x ILC lumi => 8.3 BCHF
 - 4x ILC lumi += 0.8 BCHF; 550 GeV with 2x ILC lumi += 5.5 BCHF
- CLIC: close collaboration with LCF@CERN, e.g. planning with same underground infrastructure
- ILC document focuses on summary of IDT activities
 - ILC Technology Network
 - 2024 ILC cost update
 - Political situation in Japan / position of JAHEP & ILC-Japan
- P/LWA, C3, ERLs, ...feature prominently as upgrade options in LCVision / LCF@CERN documents
- HALHF => Brian's talk :)