

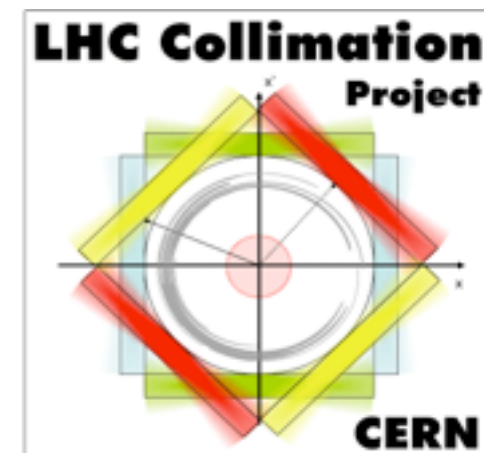
*2nd Joint HiLumi LHC-LARP Annual Meeting
Joint WP2-WP5 mini-session
INFN, Laboratori Nazionali di Frascati
Frascati, Italy, November 14th-16th, 2012*

Discussion on prioritized list of actions

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Simulation environment



Incoming halo

Quench, background, machine protection



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Physics debris

Quench matching section and disp. suppressors



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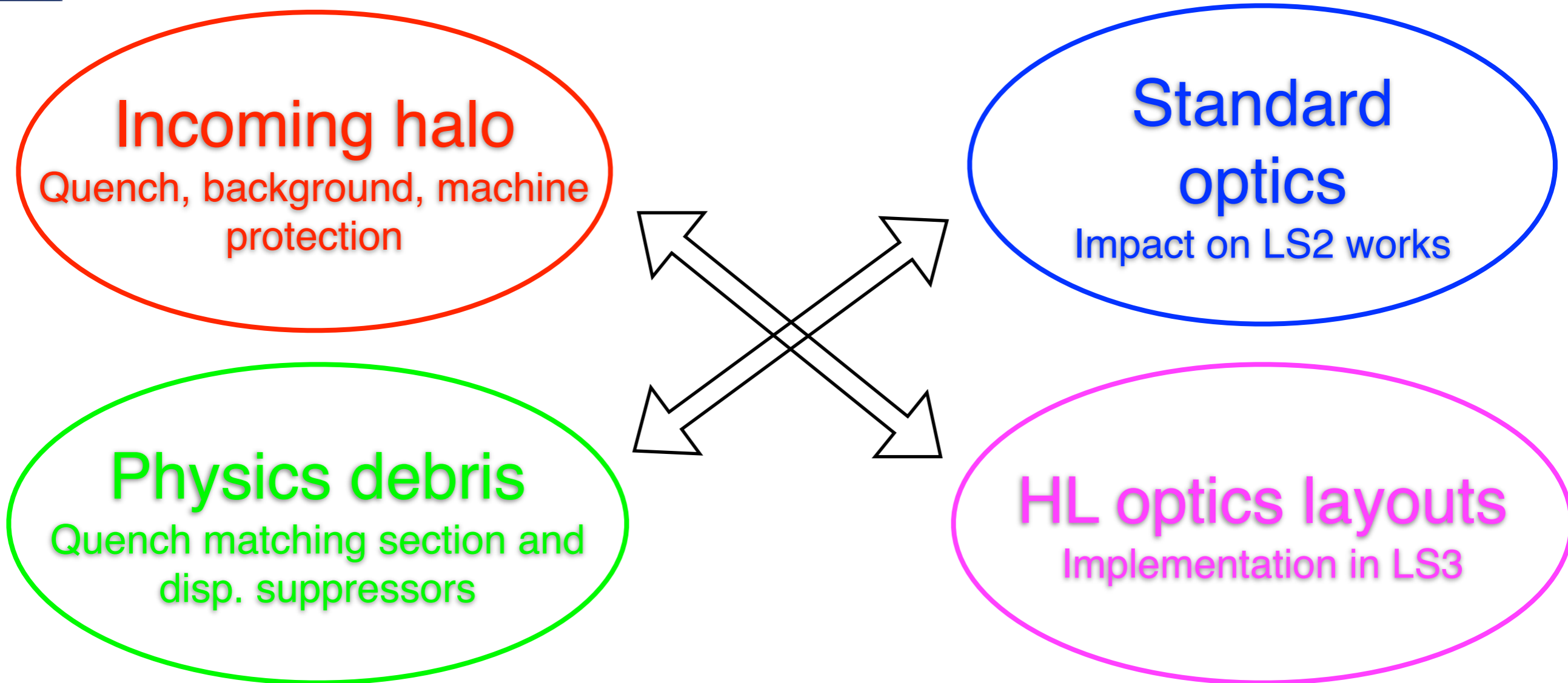
Physics debris

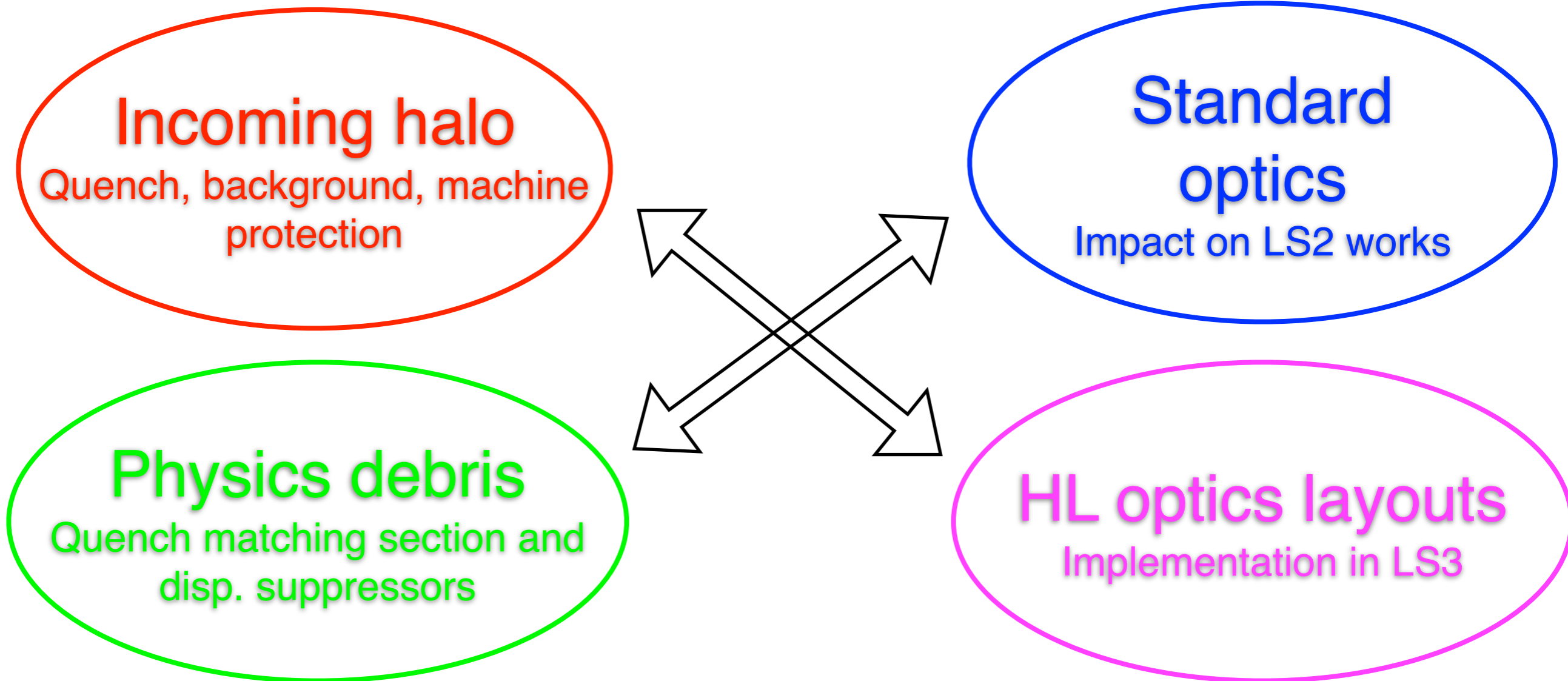
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HL optics layouts

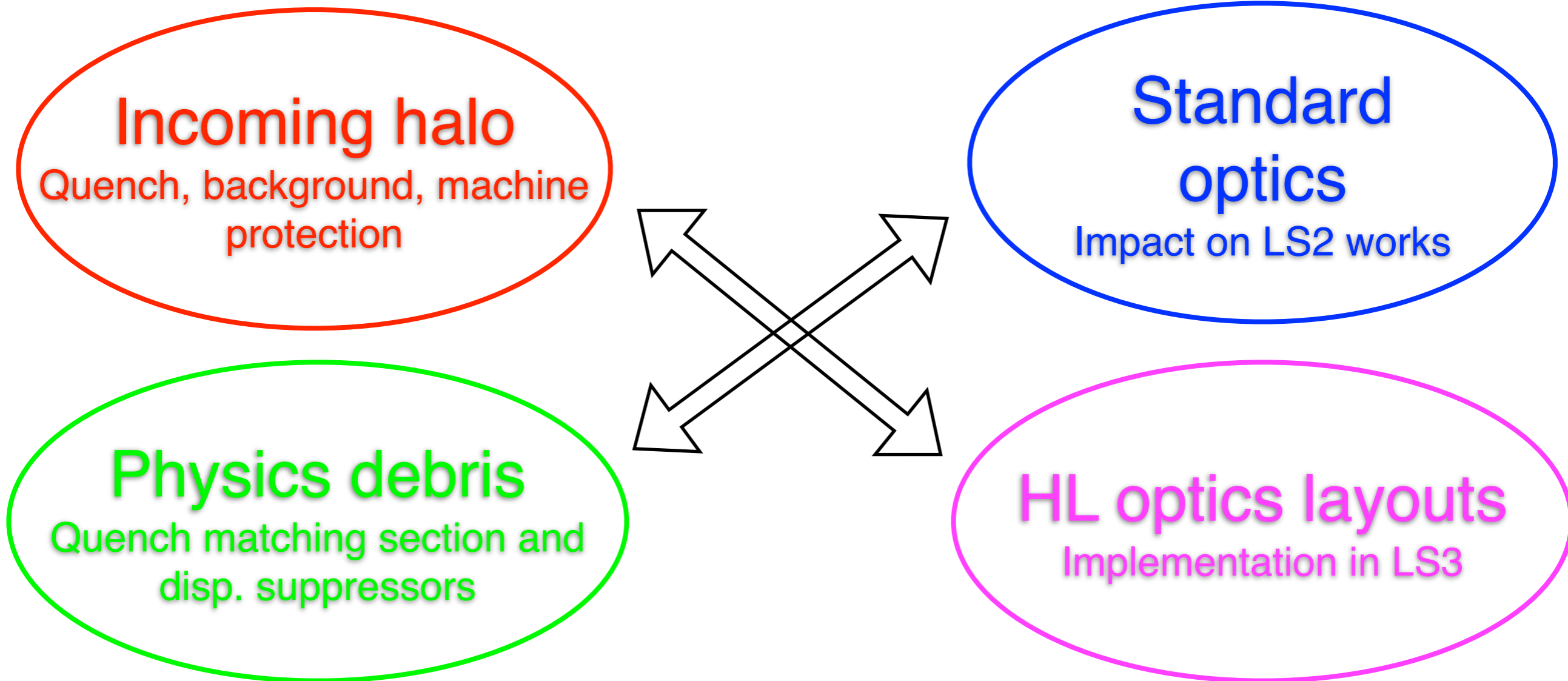
Implementation in LS3

Simulation environment

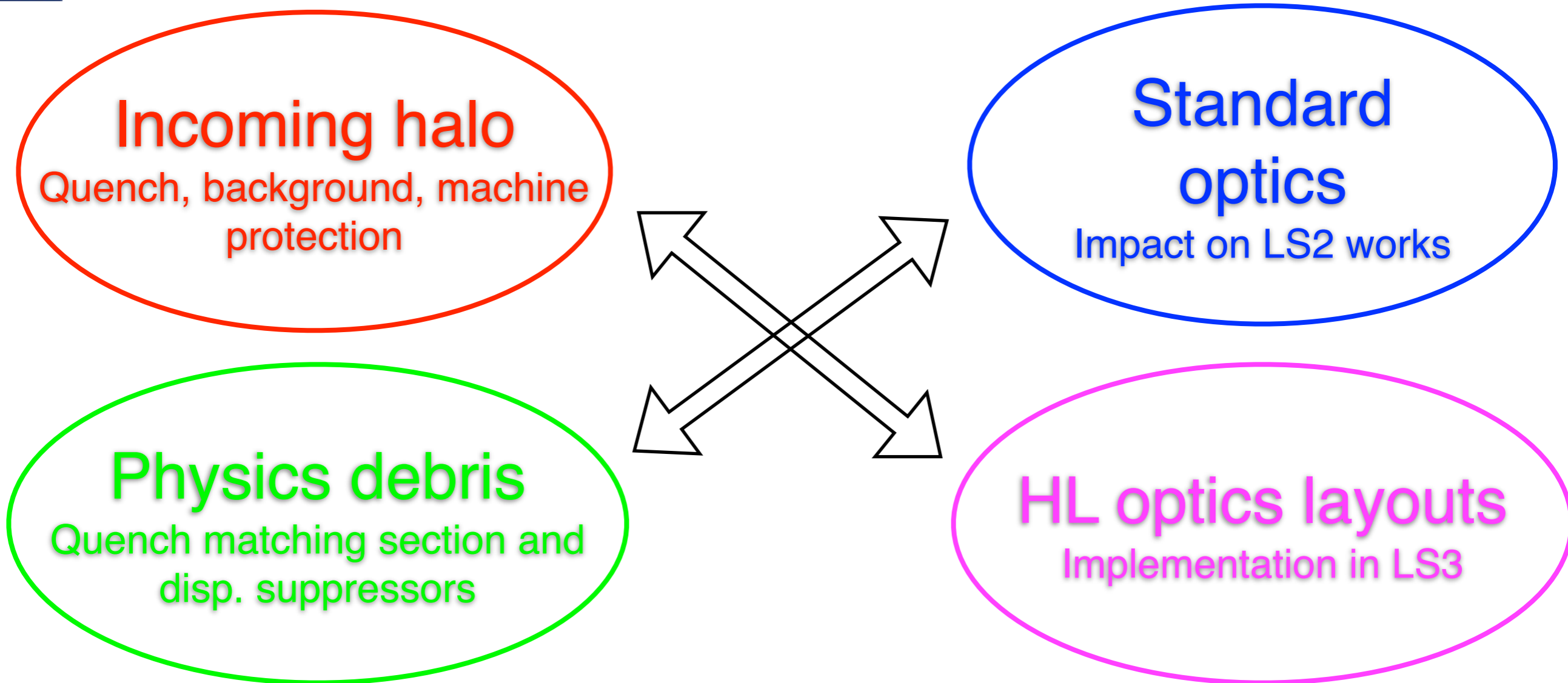




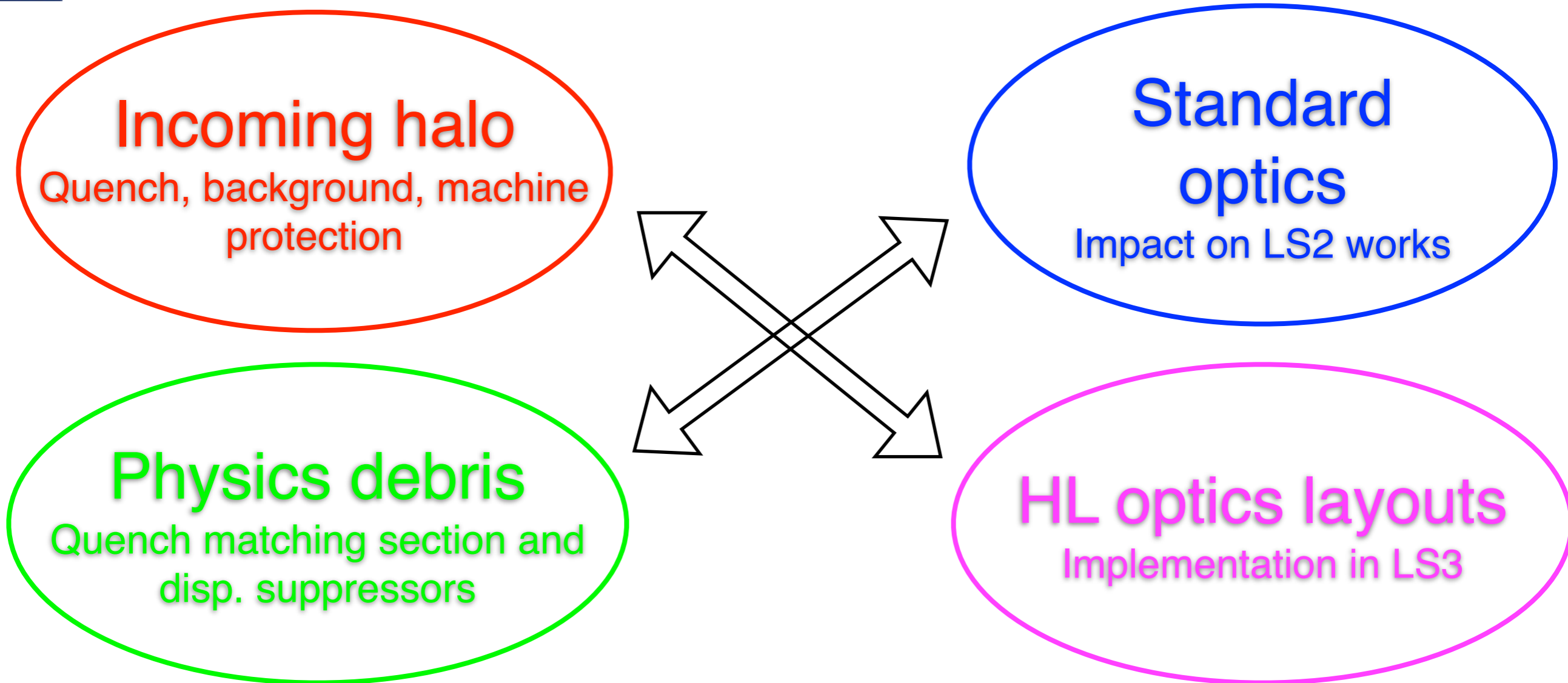
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- Tools: **complementary simulation setups:**
Tracking (Sixtrack, Merlin) and detailed energy deposition (FLUKA).
- Collimation limitations for the **LHC β^* reach**: refined models for IR protection.
Semi-analytical models and tracking tools being developed and benchmarked (2011 MDs).



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- ☑ Contributions from Merlin tracking?
 - *Are we ready for "production" of accelerator physics results?*



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- ☑ Betastar reach models continue in collaboration with WP2
 - *See talk by R. Bruce.*