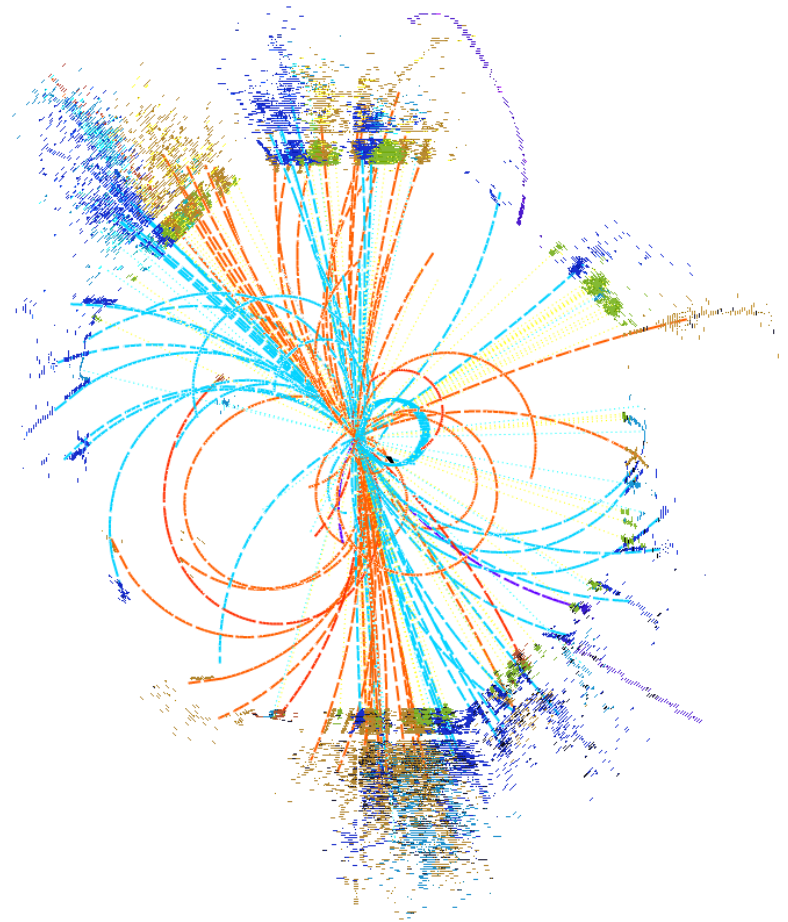


**Philipp Roloff (CERN)**



CLICdp WG Analysis meeting, CERN, 11/06/2014

- Final state QCD showering simulated using PYTHIA, no decent shower matching algorithm for WHIZARD 1.95
- For the DBD production gluon propagators were switched off (by setting  $\alpha_s = 1 \cdot 10^{-6}$ ) to avoid double counting
- Last week I discovered that this was never done for WHIZARD generations using DIRAC
- Should only affect samples with at least 4 quarks in the final state  
→ For many analyses irrelevant

## Examples:

Process:	$\sigma(\text{normal } \alpha_s)$ [fb]	$\sigma(\alpha_s = 1E^{-6})$ [fb]
$e^+e^- \rightarrow q\bar{q}$	3580	3580
$e^+e^- \rightarrow qqv\bar{v}$	1320	1320
$e^+e^- \rightarrow qqqq$	592	548

→ Still investigating the full impact