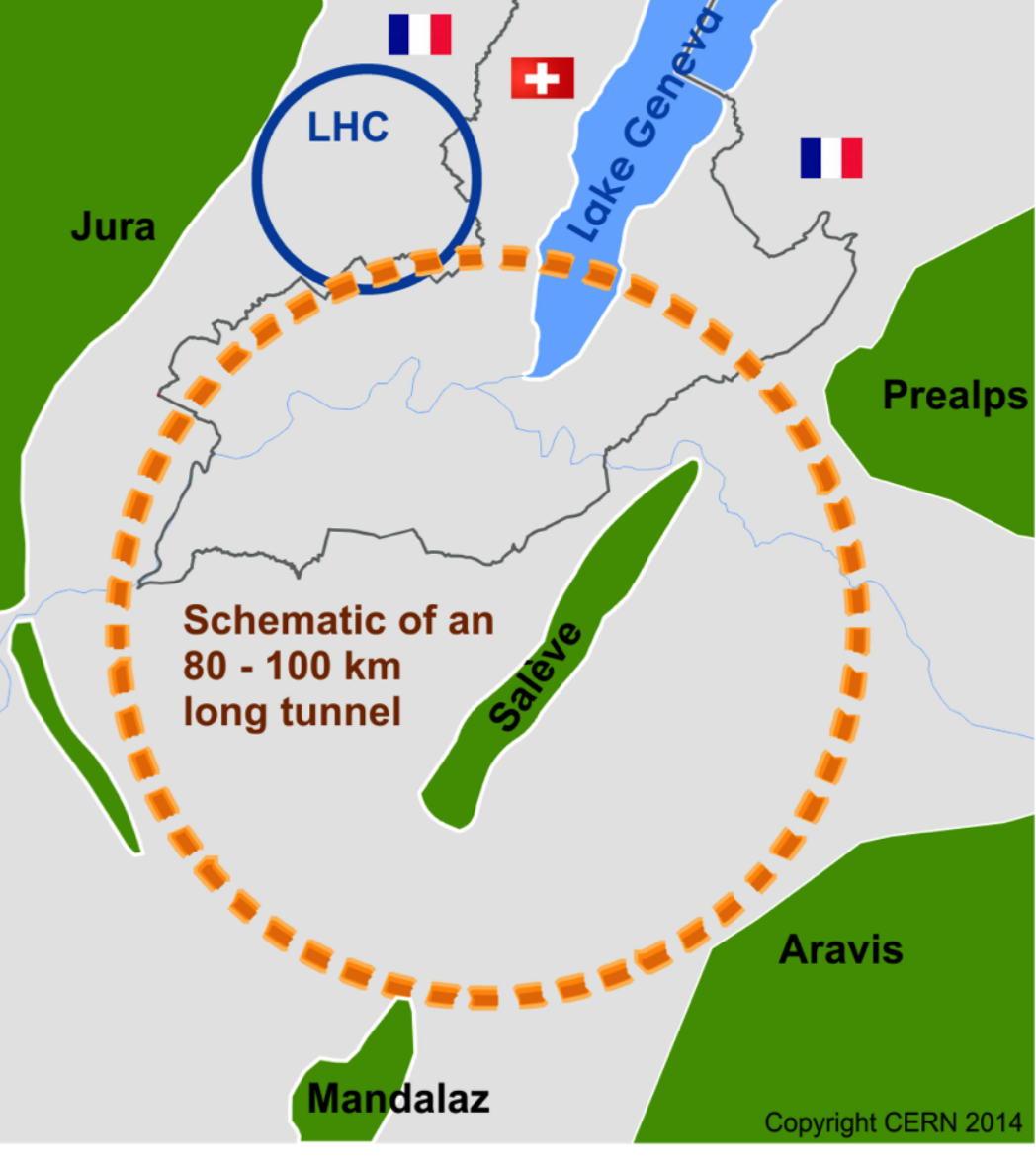
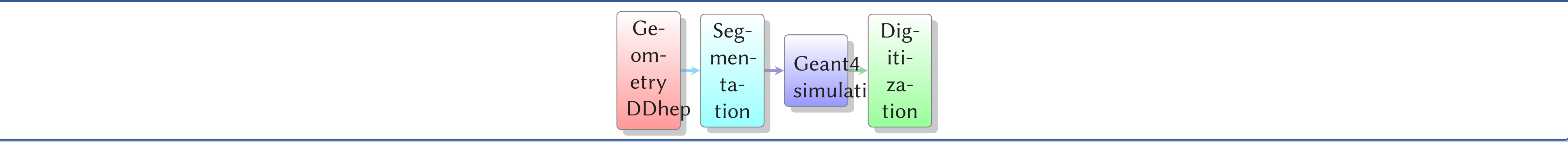


FCC: Future Circular Collider

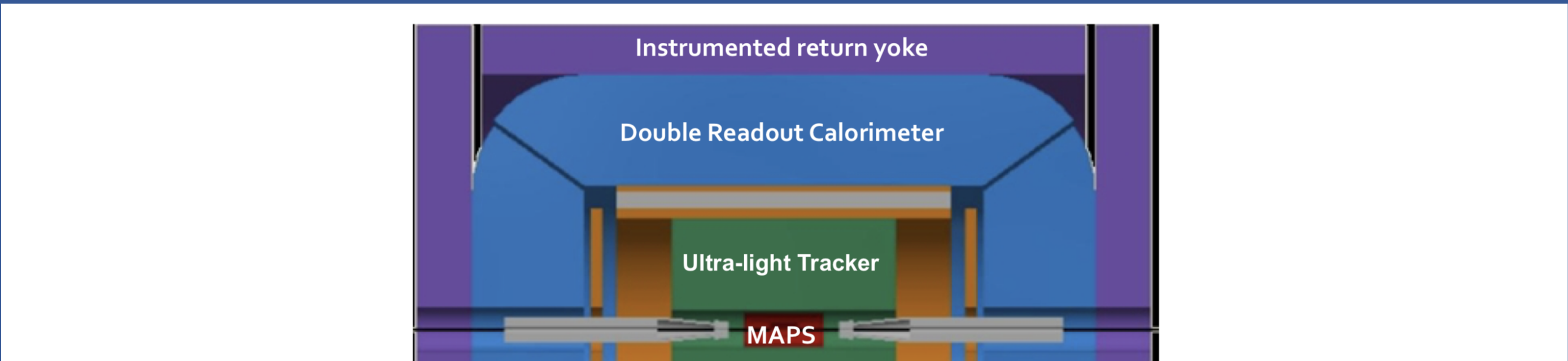
- A future collider
- 3 options



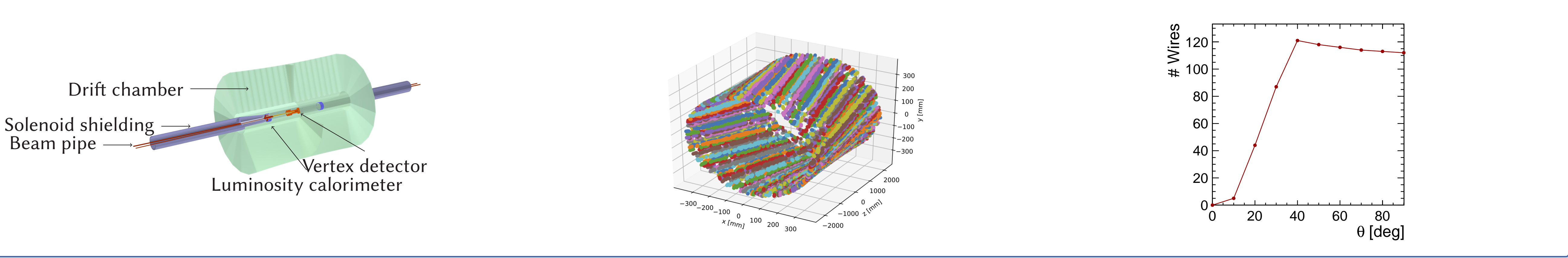
FCCSW: Physics and Detector simulations with FCCSW



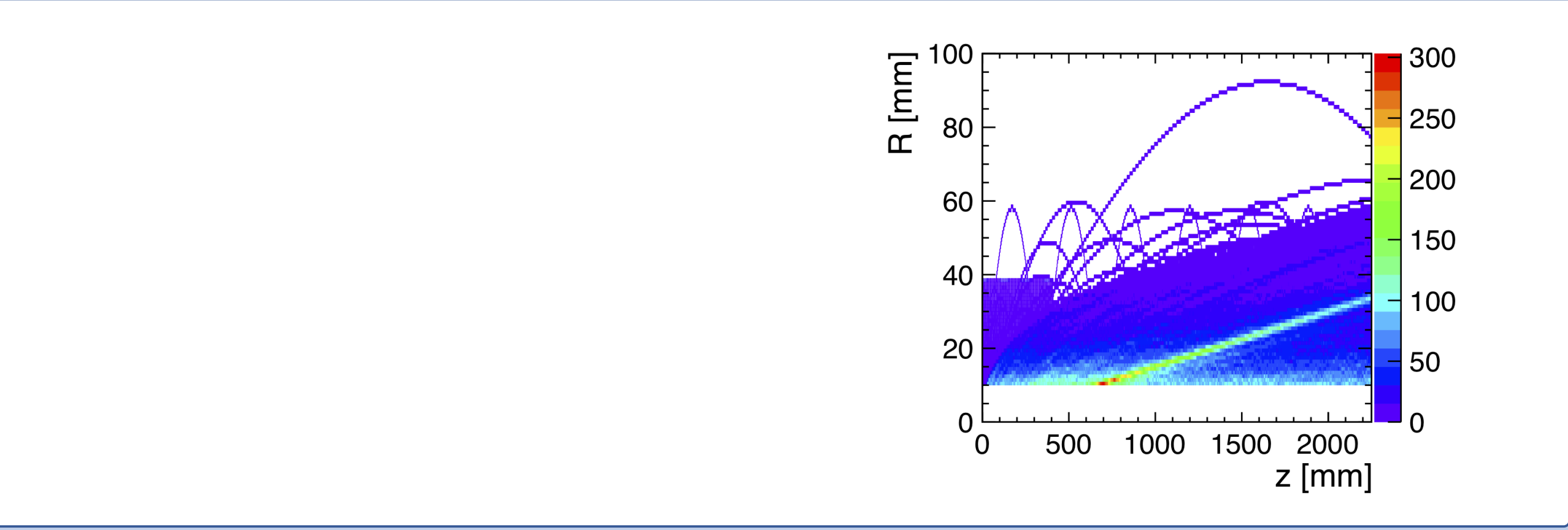
The IDEA detector concept



Simulation of the drift chamber within FCCSW



Beam-induced backgrounds



Beam-induced backgrounds

Background	Average occupancy	
	$E_{\text{cm}} = 91.2 \text{ GeV}$	$E_{\text{cm}} = 365 \text{ GeV}$
e^+e^- pair background	1.1%	2.9%
$\gamma\gamma \rightarrow$ hadrons	0.001%	0.035%
Synchrotron radiation	-	0.2%