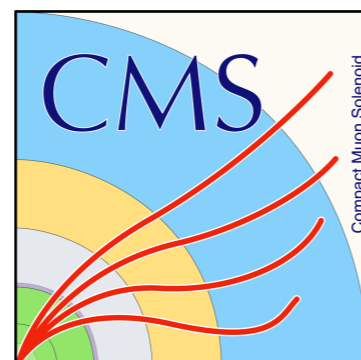


# Common displaced lepton-jet models for ATLAS and CMS



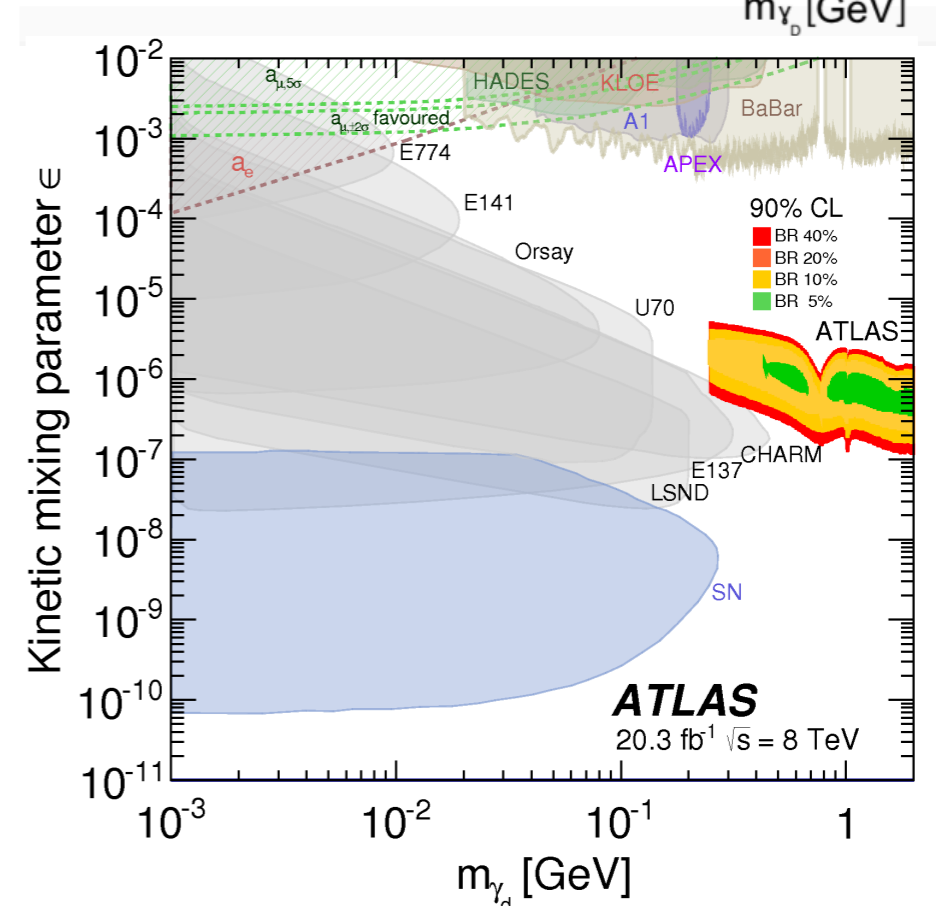
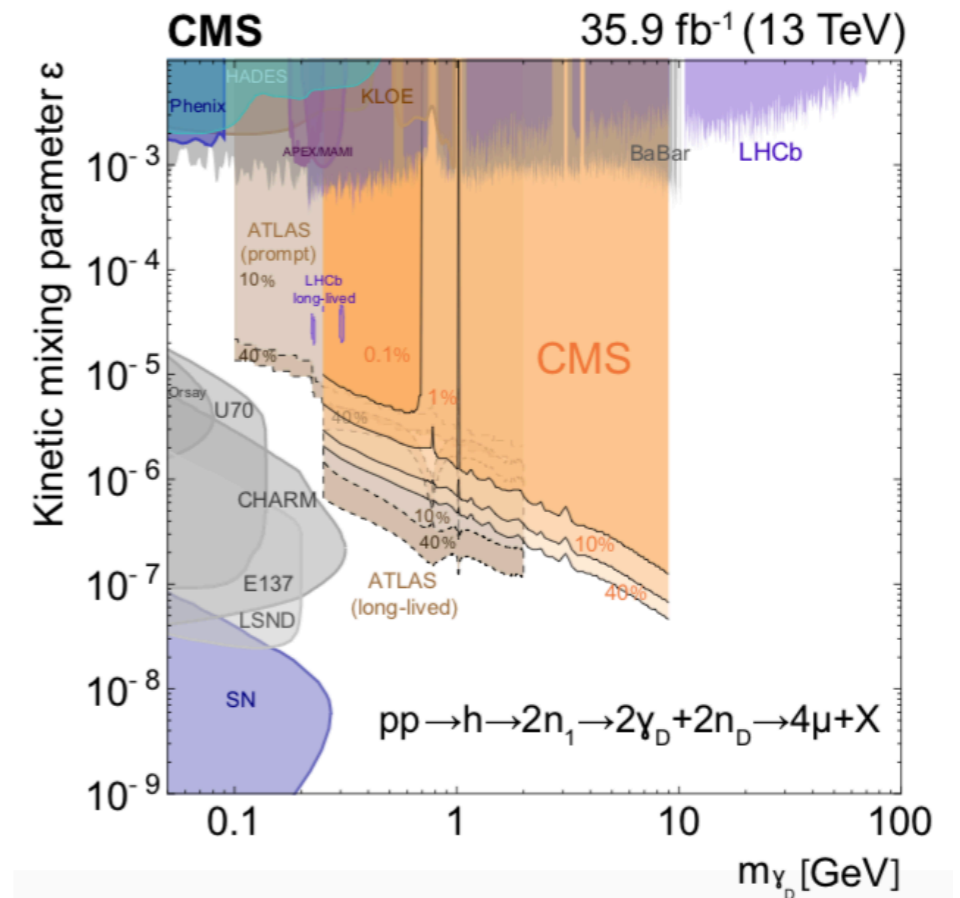
**Marcus Hohlmann**  
**Teruki Kamon**  
**Cristiano Sebastiani**



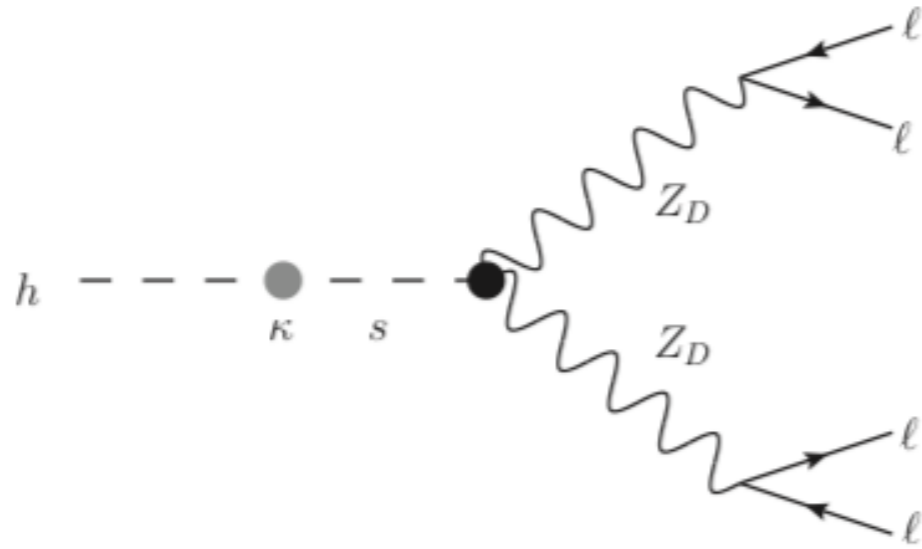
**SAPIENZA**  
UNIVERSITÀ DI ROMA

# Discussion

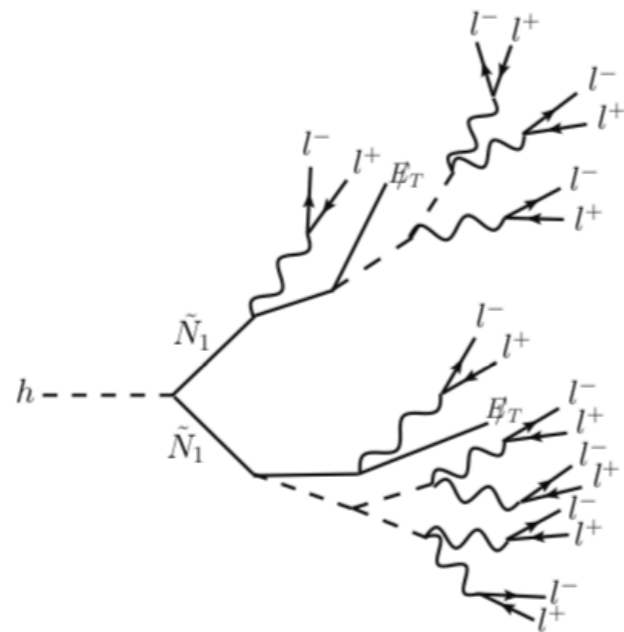
- Agree between ATLAS and CMS on final state topologies for full Run2 displaced lepton-jet searches
- Aim to agree on benchmark models:
  - 1.UFO
  - 2.Couplings
  - 3.Hidden particles mass
- Same mass points? Need at least one...



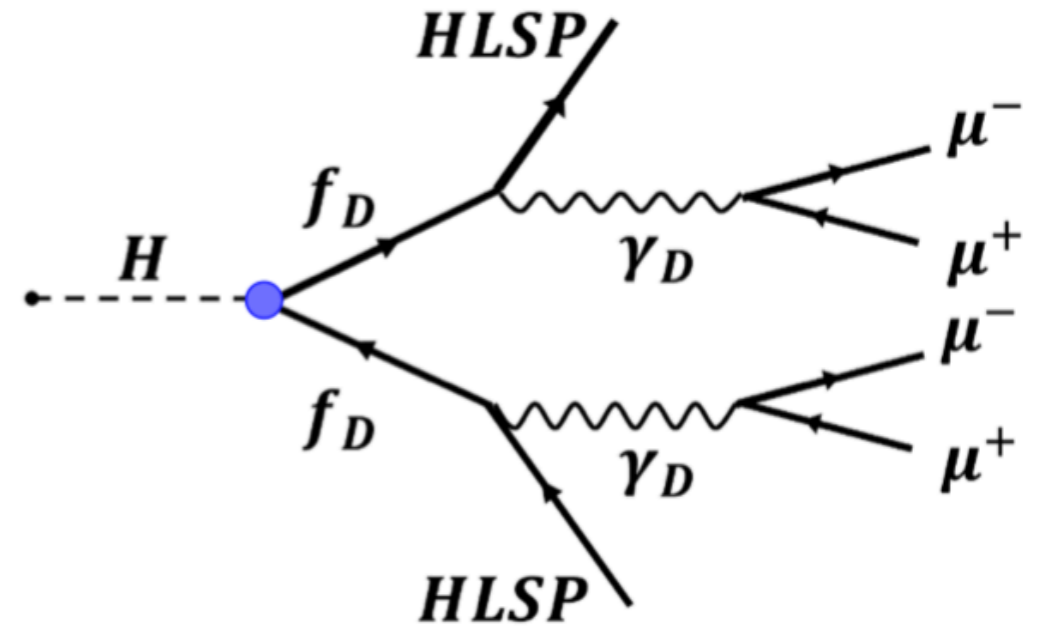
# Final state topologies



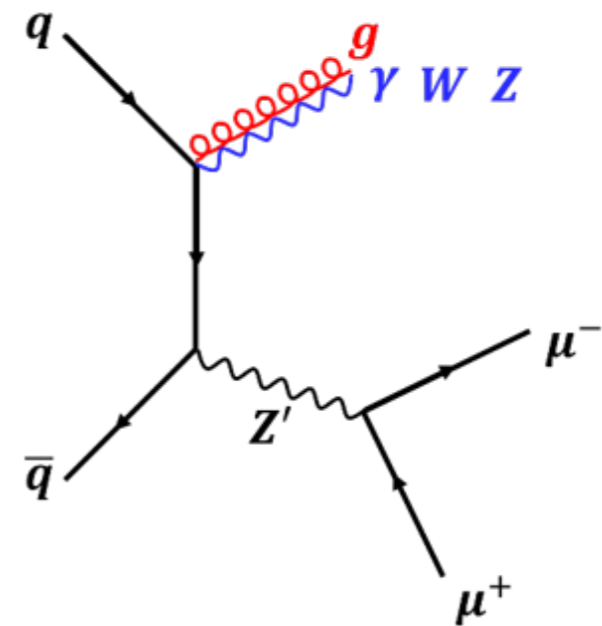
$$pp \rightarrow 2\gamma_d$$



$$pp \rightarrow 4\gamma_d + X$$



$$pp \rightarrow 2\gamma_d + X$$



$$pp \rightarrow \gamma_d + jet/\gamma/W/Z$$