## Search for PBH evaporations with H.E.S.S.

 $\rightarrow$  Goal of the analysis : search TeV  $\gamma\text{-ray}$  bursts from PBH at their final stage of evaporation

- Clusters of few photons
- Timescale of a few seconds to few minutes

Dataset :

 $\bullet~\sim$  5000 hours of H.E.S.S.-1 observations

Method :

- Clustering algorithm (OPTICS)
- Maximum Likelihood ratio

## Hypothesis :

- Hawking's radiation
- PBH formed from Gaussian density fluctuations

## **Results** :

Analysis was ran for 10s, 30s, 60s, 120s time scales : No significant excess



