



Contribution ID: 41

Type: Long talk (20 mins)

## Accelerating black holes in 2+1 dimensions

*Thursday, 15 December 2022 18:20 (30 minutes)*

We study the C-metric in 2+1 dimensions ab initio. We find three classes of geometry, which we interpret by studying holographically their physical parameters. From these, we construct stationary, accelerating point particles; one-parameter extensions of the BTZ family resembling an accelerating black hole; and find new solutions including a novel accelerating “BTZ geometry” not continuously connected to the BTZ black hole as well as some black funnel solutions.

### Type of presentation

20 minute talk

### Would you be interested in receiving feedback on your presentation?

Yes

### Are you happy for your talk to be recorded?

Yes

### Other categories:

Gravity / Holography

### Please select the most relevant category

Black holes

**Primary authors:** Dr SCOINS, Andrew (Durham University); ARENAS-HENRIQUEZ, Gabriel (Durham University); Dr GREGORY, Ruth (Kings College London)

**Presenter:** ARENAS-HENRIQUEZ, Gabriel (Durham University)

**Session Classification:** Full Length Talks