



Contribution ID: 40

Type: **Long talk (20 mins)**

## Information recovery in JT gravity

*Friday, 16 December 2022 13:00 (30 minutes)*

I will discuss the information recovery problem for an object thrown into a black hole in JT gravity using the quantum extremal surface prescription. In particular, I will show how to reproduce the Hayden-Preskill decoding criterion but with some refinements, which include the effect of the backreaction of the infalling object.

### 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:

quantum gravity, quantum information

### Please select the most relevant category

Holography

**Primary author:** TALWAR, Neil (Swansea university)

**Presenter:** TALWAR, Neil (Swansea university)

**Session Classification:** Full Length Talks