Gaps in the black hole magnetospheres

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Subject: **Gaps** in the magnetospheres of the SMBH

Goal: The presence of the gap has clear observational signatures
The **Gap** is a region with a lack of charge density.

**Motivation:**
- Observations: fast variability
- Acceleration region $\sim R_{\text{horizon}}$
- Gap

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Results

Gap height

Spectra of emission from electrons in the gap

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Conclusions:

testing the gap model -
looking for the charp features
appearing in the broader/smother jet spectra