



Canadian Association  
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Type: **Invited Speaker / Conférencier(ère) invité(e)**

## **(I) Shock waves from quantum black holes**

*Monday 19 June 2023 16:00 (30 minutes)*

What is a quantum black hole? How does it form and how long does it last? I will provide an answer to these questions via an effective equation that describes gravitational collapse of dust with quantum corrections. Solving this equation reveals that black holes end in a shock wave after a time of order mass squared.

### **Keyword-1**

Black holes

### **Keyword-2**

Quantum gravity

### **Keyword-3**

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**Session Classification:** (DTP) M3-9 Strong Gravity and Black Holes | Gravité forte et trous noirs (DPT)

**Track Classification:** Technical Sessions / Sessions techniques: Theoretical Physics / Physique théorique (DTP-DPT)