

## **"QUANTUM MECHANICS OF FUNDAMENTAL SYSTEMS X: BLACK HOLE ENTROPY, 43 YEARS LATER"**

The conference attended by renowned theoretical physicists from different countries and institutions, was held from December 12 to 16 in the conference room of the CECs Martha Muse Building, it was co-organized by the Center for Scientific Studies and the Balseiro Institute, sponsored by CONICYT and It from Qubit of the Simons Foundation.

TENTH SUMMER MEETING ON  
QUANTUM MECHANICS OF FUNDAMENTAL SYSTEMS

# BLACK HOLE ENTROPY 43 YEARS LATER

VALDIVIA, CHILE | DECEMBER 12-16, 2016

Lecturers include:

**Glenn Barnich**  
(Brussels)

**Claudio Bunster**  
(Valdivia)

**Horacio Casini**  
(Bariloche)

**Geoffrey Compère**  
(Brussels)

**Aitor Lewkowycz**  
(Stanford)

**Andrew Strominger**  
(Cambridge, Mass.)

**Aron Wall**  
(Princeton)

**Jorge Zanelli**  
(Valdivia)

$$S = \frac{k c^3}{\hbar G} \cdot \frac{1}{4} \left( \begin{array}{c} \text{Black hole} \\ \text{area} \end{array} \right)$$



**Organizers:** Claudio Bunster (Centro de Estudios Científicos), Horacio Casini (Instituto Balseiro)

Sponsored by:



Relating the information of the black hole to the quantum entanglement is one of the most important problems in theoretical physics today.