

# High performace computing

## Session organizers

1. Lisandro Dalcin, CIMEC, CONICET, Santa Fe, Argentina.
2. Enzo A Dari, Centro Atómico Bariloche (CNEA), CONICET, Universidad Nacional de Cuyo, San Carlos de Bariloche, Argentina.
3. Carlos Garcia Garino, Universidad Nacional de Cuyo, San Carlos de Bariloche, Argentina.
4. Cristian Mateos, Universidad Nacional del Centro de la Provincia de Buenos Aires, CONICET, Tandil, Argentina.

## Description

The growth in the capabilities of computers requires the adaptation of working methods to optimize the computing resources. One of the reasons by which processing speed in modern computers has increased is the parallel computing, either employing multiprocessors, multicore processors, GPUs, etc.. The complexity of modern computer programming required to efficiently utilize such platforms to obtain good performance and scalability. This session is intended to provide a forum for those working in multicore processors, graphics boards (GPU) in "grid computing", etc. applied to mechanical and multiphysics computational problems.