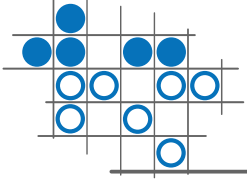


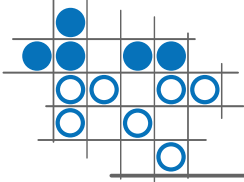
1st training workshop

SMILEI training workshop
November 6-7, 2017
Maison de la Simulation



Smilei's philosophy

- **Open-Source & Collaborative**
- **High-Performance-Computing (HPC) relevant**
co-development between HPC specialists & physicists
- **User-friendly**
3 user-levels: basic, advanced, expert
- **Multi-purpose & Physics-oriented:**
advanced physics modules
extensive diagnostics & post-processing tools



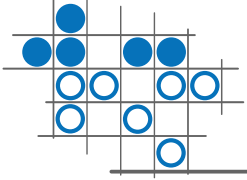
Program: 1st day

10h20 – 10h30	Welcome introduction (E. Audit)
10h30 – 11h00	PIC simulation in the new landscape of HPC (A. Beck)
11h00 – 11h30	HPC strategies in Smilei (J. Derouillat)
11h30 – 11h50	Smilei's interface, outputs & post-processing (F. Pérez)
11h50 – 12h10	Collaborative infrastructure (T. Vinci)
12h10 – 12h30	Project review, Physics highlights & Perspectives (M. Grech)

Lunch at *Maison de la Simulation*

14h30 – 15h00	Coupling Smilei with the PICSAR library (H. Kallala)
15h00 – 15h30	QED processes in Smilei (M. Lobet)
15h30 – 16h00	<i>coffee break</i>
16h00 – 16h30	HHG on Thin Target with Smilei & Happi capabilities (G. Bouchard)
16h30 – 17h00	Astrophysical plasma applications of SMILEI (J. Dargent)
17h00 –	Demonstration of Smilei's post-processing capabilities on the visualization wall (M. Lobet)

Table ronde



Program: 2nd day

- 09h00 – 12h30 **Numerical hands on 1 (basics)**
- basics of PIC simulations
 - basics plasma processes
 - handling Smilei: input file & happi post-processing tool

Lunch at *Maison de la Simulation*

- 14h00 – 16h30 **Numerical hands on 2 (advanced)**
- give a try to Smilei's advanced physics
 - try your on input files
- 16h30 – 17h00 **Concluding remarks**