

Welcome to Portugal for the **Purple Shark**

SHARK-FV 2017

Sharing Higher-order Advanced Research Know-how on Finite Volume
workshop

<http://www.math.univ-toulouse.fr/SHARK-FV/>



The organizers

Hotel Parque do Rio, Ofir, Portugal

Ofir, May 15-19, 2017



Many thanks for being here !



The image shows four overlapping banners for the SHARK-FV conferences. The top banner is red and white, followed by blue and white, then grey and white, and finally purple and white. Each banner features a shark fin graphic. The purple banner (2017) includes the text: "SHARK-FV 2017 Conference", "SHARING HIGHER-ORDER ADVANCED RESEARCH KNOW-HOW on FINITE VOLUME", "Ofir, Portugal", "May 22 - 26, 2017", and the URL "http://www.math.univ-toulouse.fr/SHARK-FV/".

SHARK-FV 2014 Conference

SHARK-FV 2015 Conference

SHARK-FV 2016 Conference

SHARK-FV 2017 Conference

SHARING HIGHER-ORDER ADVANCED RESEARCH KNOW-HOW on FINITE VOLUME

Ofir, Portugal
May 22 - 26, 2017

<http://www.math.univ-toulouse.fr/SHARK-FV/>

After the 2014 Red, 2015 Blue and 2016 Great White editions,
welcome to the 2017 Purple SHARK workshop

Many thanks for being here !

General information

- The hotel is our base camp (presentations, coffee break, work sessions...)
- On 'base' floors are located the relax area (0th) and the restaurant (2nd) : breakfast 8 :00, talks 9 :00, lunch 13 :00, diner ~20 :00). Where you are right now, 3rd floor, is our 'working area'
- Banquet : Wednesday evening/night.
- Places to "think" : empty swimming pool, ocean side (bars), pine trees, gardens. . .
- You are not going to waste any time in a "social trip". Come back to Porto and PT on vacations, they are designed specifically for this purpose. On the contrary on Tuesday night we invite you for a Portuguese wine degustation.
- Internet WIFI floor-by-floor in the hotel, not good in rooms, better in lobby/here
- Consult the booklet for the abstracts and program of the week (subject to changes)
- Mid-week please make sure you are registered for your journey back to Porto airport

Need help in Portugal ?

- The locals : Stéphane CLAIN, Gaspar MACHADO, Rui PEREIRA, Jorge FIGUEIREDO
- The hotel crew members

Concept of SHARK (for first-timers)

Morning : talks

45 minutes of talk + 5 minutes of questions, 4 per morning apart from Friday

Long talk to help the discussion and interactions ~ friendly seminar where questions are asked and true answers are given

Afternoon : work sessions

Great Science !

Finish papers, write papers, exchange, discuss, implement, compile, post-process, write proofs, argue, etc.

Make new friends, network

Most important : enjoy your time here and solve (y)our problems

If you do not have any problem to solve, we can provide some !

2017 SHARK group - ~31 participants

Carlos González-Aguirre, U. Tabasco **Mexico**
Christophe Berthon Univ. de Nantes **France**
Walter Boscheri Università di Trento **Italia**
Saray Busto U. Santiago de Compos. **Spain**
Christophe Chalons U. Versailles **France**
Manuel Castro Díaz Univ. de Málaga **Spain**
Stéphane Clain Univ. do Minho **Portugal**
Michael Dumbser Università di Trento **Italia**
Christophe Duran Univ. de Lyon **France**
Cipriano Escalante S Univ. de Málaga **Spain**
Francesco Fambri Università di Trento **Italia**
Jorge Figueiredo Univ. do Minho **Portugal**
Camilla Fiorini Univ. de Versailles **France**
Gregor Gassner Univ. Köln **Austria Germany**
Raphaël Loubère Univ. de Bordeaux **France**
Gaspar Machado Univ. do Minho **Portugal**

Victor Michel-Dansac U. Toulouse **France**
Claus-Dieter Munz Univ. Stuttgart **Germany**
Pascal Noble Univ. de Toulouse **France**
Xesús Nogueira Univ. da Coruña **Spain**
Rui Pereira Univ. do Minho **Portugal**
Ilya Peshkov Univ. de Toulouse **France Russia**
Rhomias Rey Univ. de Lille **France**
Matteo Semplice Univ. of Turino **Italia**
Khaled Saleh Univ. de Lyon **France**
Maxime Stauffert Univ. de Versailles **France**
Rodolphe Turpault Univ. de Bordeaux **France**
Elena Vázquez Cendón U. Santiago C. **Spain**
Marie-Hélène Vignal Univ. de Toulouse **France**
Jean-Paul Vila Univ. de Toulouse **France**
François Vilar Univ. de Montpellier **France**

Summary

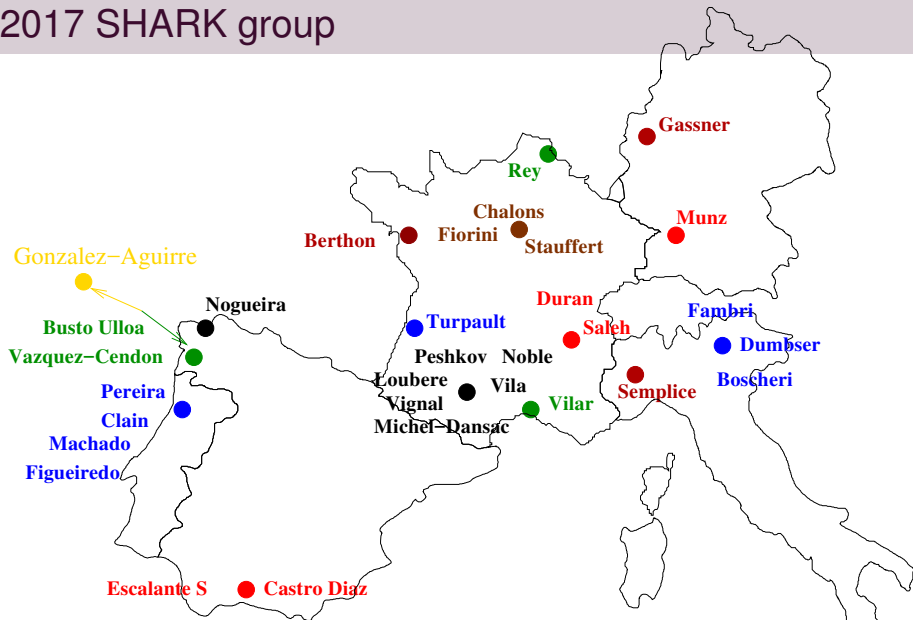
~ 31 researchers, 2 continents, 6 countries, ≥ 8 nationalities

PhD students/postdocs : 6, Researchers senior/junior : 25

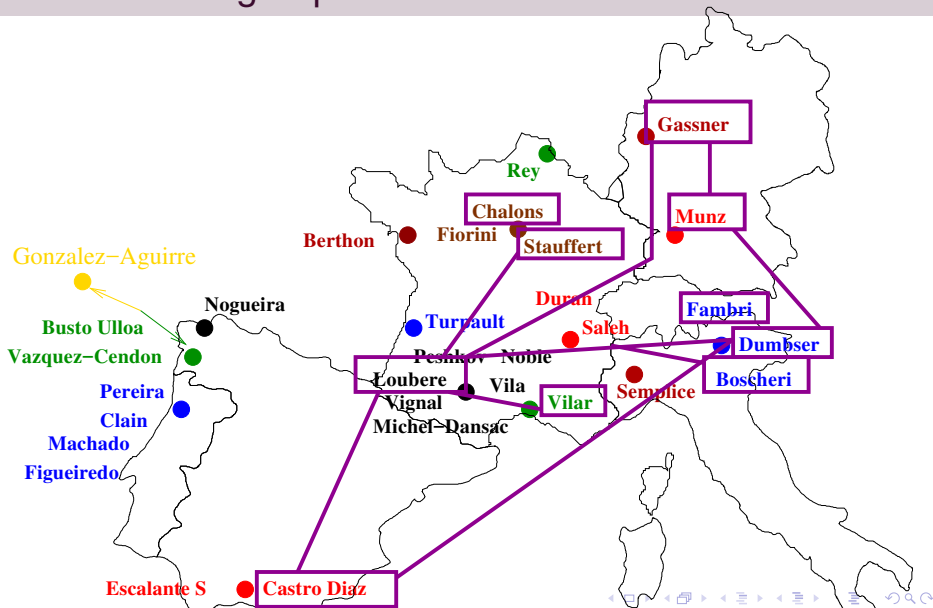
Langages : minimum 6, 12 with dialects \implies 'broken English' to communicate during SHARK

#	Name, Surname	DG	HO	SW	ALE-FV	CPU	AMR	AP	MOOD	MO-DELS	SPH	NUM.-ANAL.	etc.
1	Loubere Raphael	✓	✓	✓	✓		✓	✓	✓	✓	✓		
2	Peshkov Ilya								✓	✓	✓		
3	Escalante S. Cipriano											✓	
4	Gassner Gregor	✓		✓		✓						✓	
6	Vilar Francois	✓			✓				✓		✓	✓	
7	Fiorini Camilla											✓	
8	Vila Jean-Paul			✓					✓		✓	✓	
9	Stauffert Maxime	✓		✓	✓								
10	Munz Claus-D	✓				✓	✓	✓	✓	✓		✓	
11	Turpault Rodolphe		✓	✓		✓	✓	✓	✓			✓	
12	Boscheri Walter	✓	✓		✓	✓			✓	✓			
13	Nogueira Xesus		✓	✓							✓	✓	
14	Vignal Marie-H.		✓					✓				✓	
15	Semplice Matteo		✓				✓		✓			✓	
16	Castro Díaz Manuel	✓	✓	✓		✓	✓						
17	Busto Ulloa Saray		✓	✓								✓	
18	González-Aguirre J		✓	✓								✓	
19	Rey Thomas		✓					✓				✓	
20	Chalons Christophe	✓		✓	✓			✓	✓			✓	
21	Vazquez C. Elena		✓	✓									
22	Noble Pascal		✓	✓				✓		✓	✓	✓	
23	Fambri Francesco	✓	✓				✓		✓	✓			
24	Duran Arnaud											✓	
25	Berthon Christophe		✓	✓				✓		✓		✓	
26	Saleh Khaled			✓	✓							✓	
27	Dumbser Michael	✓	✓		✓	✓	✓	✓	✓	✓		✓	
28	Michel-Dansac Victor		✓	✓				✓	✓			✓	
29	Clain Stephane		✓	✓		✓			✓	✓	✓	✓	
30	Machado Gaspar		✓	✓					✓			✓	
31	Figueiredo Jorge		✓	✓					✓			✓	
32	Pereira Rui		✓	✓									

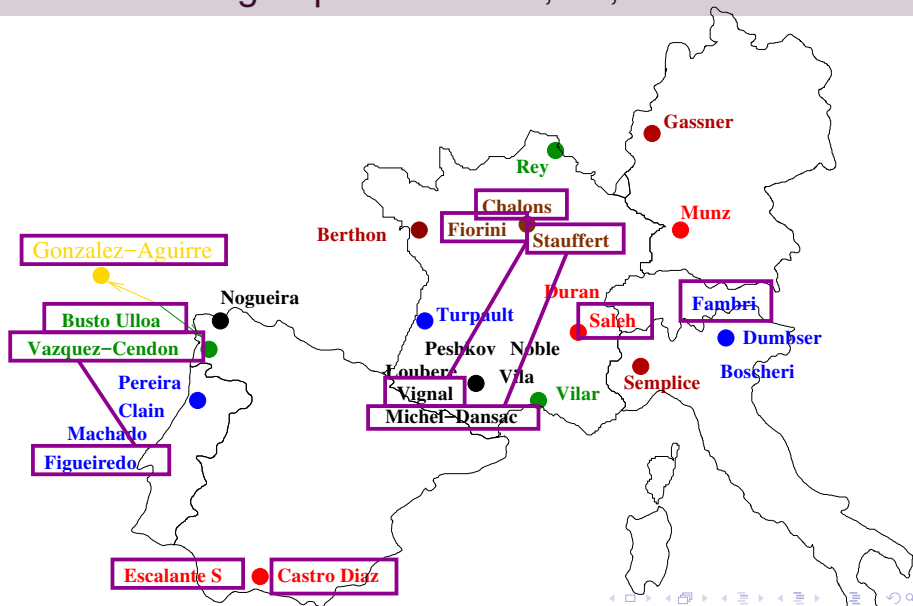
2017 SHARK group



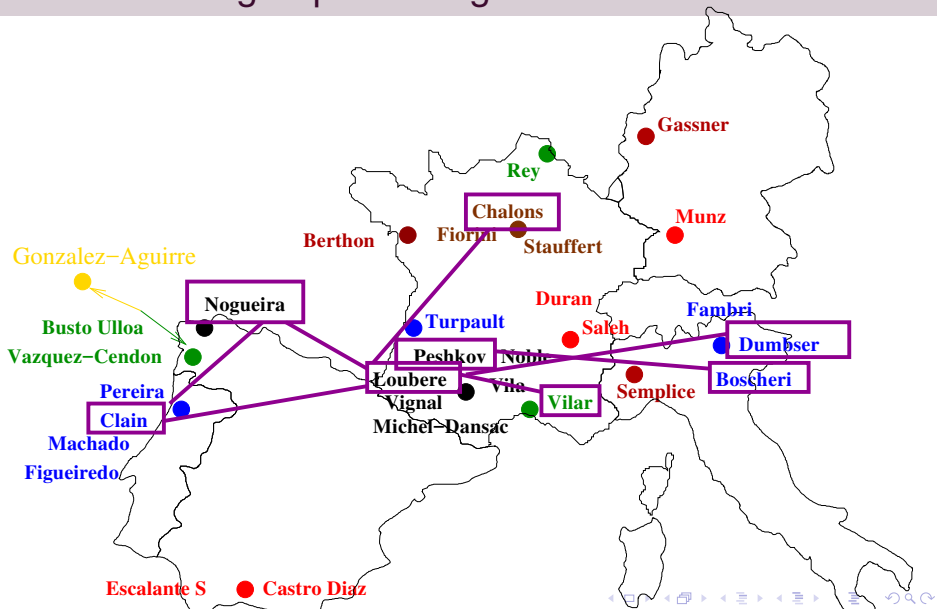
2017 SHARK group - DG



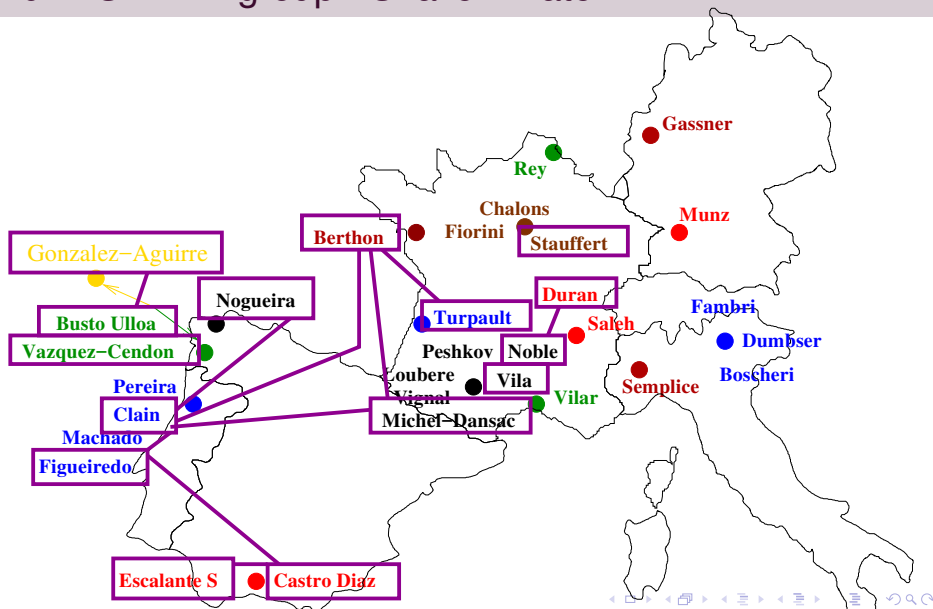
2017 SHARK group - Low Mach, AP, well balanced



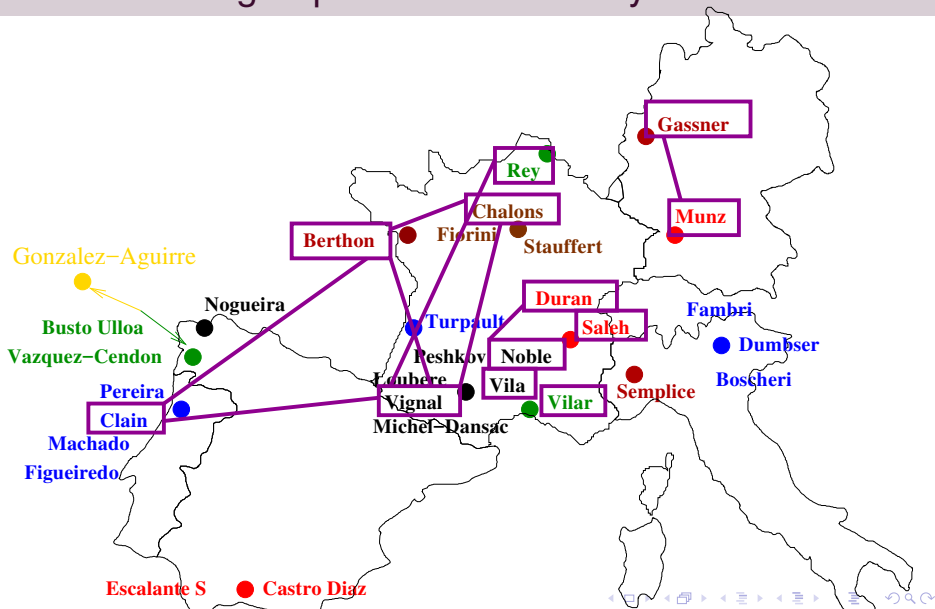
2017 SHARK group - Moving mesh



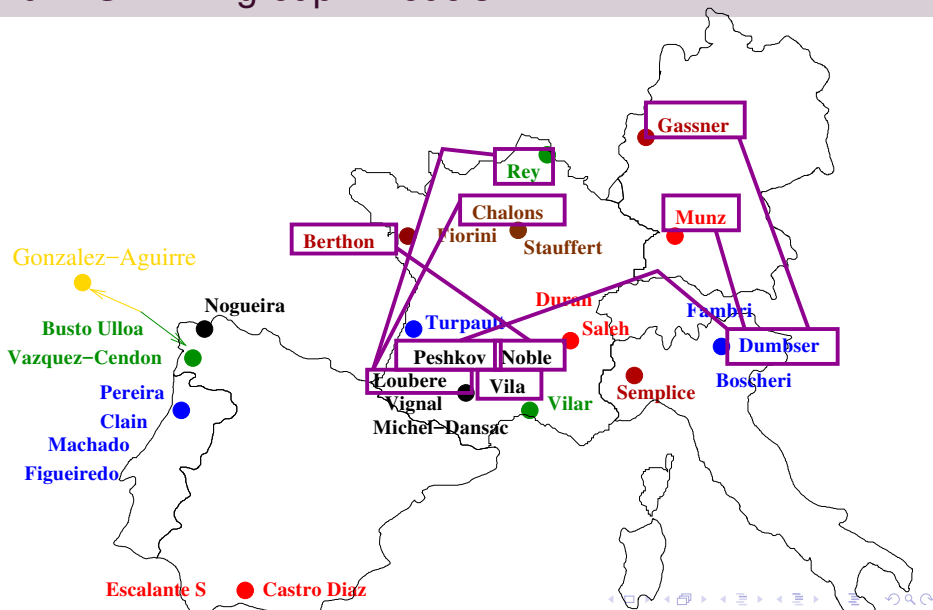
2017 SHARK group - Shallow water



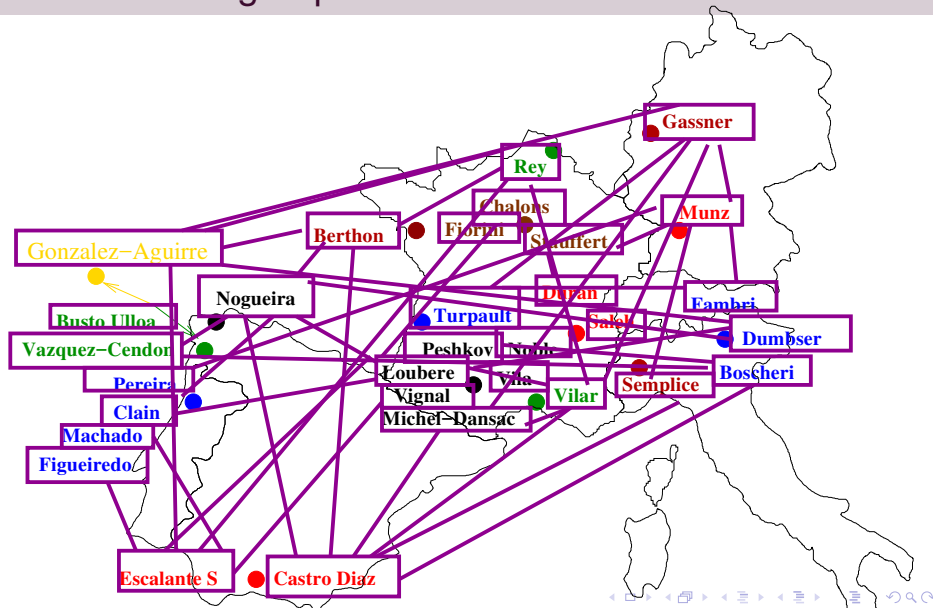
2017 SHARK group - Numerical Analysis



2017 SHARK group - Models



2017 SHARK group - HO numerical methods



Enjoy and have a productive week