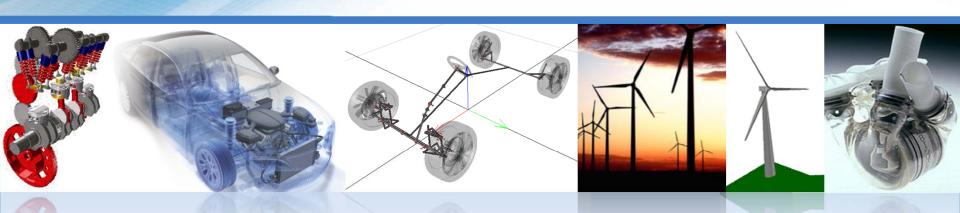
## LHCphen()net



# Summary of Activities

Jürgen Gerhard, David Hare



#### **Outline**

- About Maplesoft
- Role in LHCPhenoNet
- Team
- Meetings
- ESR Training
- Schedule
- Visa



### **About Maplesoft**

- Leading provider of high-performance software tools for engineering, science, and mathematics since 1988
- Main products:
  - Maple: technical computing and documentation environment
  - MapleSim: high-performance, multi-domain modeling and simulation tool
- Since 2009 a 100% subsidiary of Cybernet Systems Co., Japan
- Based in Waterloo ON, Canada. 120 employees.
   About 1 million customers world wide
- Research collaborations with universities and research institutes world wide; co-op and internship programs



#### Role in LHCPhenoNet

Provide research and skills training on mathematical software development

Host trainee students

Serve on Supervisory Board

Participate in meetings



#### **Team**

Dr David Hare, Manager,
Mathematical Software Development

- PhD Mathematics, UBC, 1987
- Joined 1998
- Team of 8 developers

Dr Jürgen Gerhard, Director, Research

- PhD Mathematics, U Paderborn, 2001
- Joined 2003
- Team of 4 researchers







### Meetings

#### Participation in the following LHCPhenoNet events:

- LHCPhenoNet Kick-off Meeting, Valencia, Spain, 1-4 February 2011
   Presentation on Maplesoft and LHCPhenoNet
- LHCPhenoNet Annual Meeting, Durham, UK, 19-22 March 2012
   Presentation on Maple + Computer Grid
- LHCPhenoNet School on Integration, Summation and Special Functions in Quantum Field Theory, RISC Linz, Austria, 9-13 July 2012
   Presentation on Polynomial GCDs and Factorization
- This meeting



## **ESR Training**

- Duration 3 months
- 1 week introduction to software tools and development environment, then training on the job
- Weekly meetings with supervisor, a senior Maplesoft developer
- Student will be given a specific development task (possibly continued work from previous student)



### **Possible Trainee Projects**

- New MapleSim components
- Application examples for Maple and MapleSim / Apps
- Extension of Student packages and tutors
- Extension of Physics package
- Extension of symbolic summation algorithms
- Numerical evaluation of special functions
- Parallel and grid computing



## **Training Schedule**

### Originally:

Lucia Hosekova, Oct-Dec 2012

Xuan Chen, Oct-Dev 2012

Likely postponed to Jan-Mar 2013 due to visa issues



### **Obtaining visa**

Participants in the training program must obtain a valid work visa for Canada, through one of the following programs:

- International Experience Canada (IEC)
  - Limited capacities
  - Does not apply to all nationalities
- IAESTE or AIESEC
  - Student must become a member
  - Application process must be started from country of nationality

Apply early, recommended: 6 months before internship





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Thank you