

IML news

Lorenzo Moneta, Markus Stoye, Michele Floris,
Paul Seyfert, Steven Schramm



Changing coordinators

Michele Floris



ALICE coordinator

→
End of January 2018

TBA



Sergei Gleyzer



CMS coordinator

→
January 1, 2018

Markus Stoye



- Thank you to Michele and Sergei for all of your work and dedication!
- Welcome to Markus and the future ALICE coordinator!

Next monthly IML meeting

















- The next IML meeting will be on February 28, 2018
- Topic: software and infrastructure
- CERN room: Filtration Plant (222-R-001), same as today
- Indico agenda under construction: [link](#)

Second IML annual workshop

- The Second IML annual workshop has been announced: [workshop link](#)
- Dates: April 9-11 for the core workshop, April 12 for the hackathon
- Already 79 registrations and counting!
 - Please do register; it's free, and your replies help us plan
 - Please register even if you will be connecting remotely!
- The [call for abstracts](#) is open until March 12
 - Interest in application of modern machine learning techniques in physics
 - Examples: tagging, regression, generative models, uncertainties, ...
- The [call for hackathon project proposals](#) will open today
 - Proposal submission will be open until the workshop
 - If you want to advertise in the Feb 28 IML meeting, submit it by Feb 26

- Physical presence is generally encourage but not required
 - All of the workshop, except the hackathon, will be on Vidyo+webcast
 - This includes the industry session, tutorials, talks, and challenge
 - Hackathon groups may arrange for remote participation if they wish
 - Preference for speakers will be given to those physically present
- If you do not have a CERN access card, register well in advance
 - We will follow-up to ensure you get a temporary access card
- Tell us if you need a letter of invitation or certificate of attendance
- Have another question? Let us know at iml.coordinators@cern.ch

Today's meeting

14:00 → 15:00 Seminar		
14:00	EP-IT data science seminar: Soumith Chintala (Facebook): Automatic Differentiation and Deep Learning	 1h 
<p>https://indico.cern.ch/event/689421/</p> <p>Statistical learning has been getting more and more interest from the particle-physics community in recent times, with neural networks and gradient-based optimization being a focus.</p> <p>In this talk we shall discuss three things:</p> <ul style="list-style-type: none">■ automatic differentiation tools: tools to quickly build DAGs of computation that are fully differentiable. We shall focus on one such tool 'PyTorch'.■ Easy deployment of trained neural networks into large systems with many constraints: for example, deploying a model at the reconstruction phase where the neural network has to be integrated into CERN's bulk data-processing C++-only environment■ Some recent models in deep learning for segmentation and generation that might be useful for particle physics problems. <p>Please note that a Webcast retransmission will be available for this Seminar.</p> <p> Seminar agenda p...  webcast</p>		
15:00 → 18:00 Regular IML meeting		
15:00	News and group updates	 10m 
<p>Speakers: Lorenzo Moneta (CERN), Markus Stoye (CERN), Michele Floris (CERN), Paul Seyfert (CERN), Steven Randolph Schramm (Université de Genève (CH))</p>		
15:10	ROC's, AUC's and alternatives in HEP and other domains	 30m 
<p>Speaker: Andrea Valassi (CERN)</p>		
15:40	Riemann-Theta Boltzmann Machine	 20m 
<p>https://arxiv.org/abs/1712.07581</p> <p>Speakers: Daniel Krefl (CERN), Daniel Krefl (Unknown), Stefano Carrazza (CERN)</p>		
16:00	Conference report: NIPS	 20m 
<p>Speaker: Savannah Jennifer Thais (Yale University (US))</p>		
16:20	Spes Spira	 20m 
<p>Speaker: Lars Varming Joergensen (CERN)</p>		