



PREFIT-School

Precision Effective Field Theory School
2-13 March 2020 at DESY, Hamburg

Report from the organising committee

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VBSCan meeting / Helsinki

21/02/2020



Istituto Nazionale di Fisica Nucleare
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The idea

- A joint school between VBSCan and ParticleFace, on precision physics
- PhD students or early-career post-docs, both from experiments and theory
- Location: DESY Hamburg (provides lecture room, support and cheap lodging / food facilities)
- Dates: March 1st-13th 2020 (in two weeks)
- COST actions to provide support to cover students' expenses (lodging and travel)
- No registration fee
- “Career” afternoon with six ex-physicists who now work in industry

Lecturers and topics

		<i>Speaker name</i>	<i>Topic</i>	<i>Affiliation</i>
EXP	TH	Illaria Brivio	EFT UFO, SMEFT	U. Heidelberg, ITP
		Kyle Cranmer	ML	New York University
	TH	Admir Greljo	EFT UFO	CERN
EXP	TH	Gudrun Heinrich	QCD and precision calculations	Max-Planck-Institut für Physik, Munich
	TH	Fabio Maltoni	EFT higgs+ EWK + top combined	CP3, UCLouvain
		Andrea Marini	Fitting	Massachusetts Inst. of Technology
	TH	Antonio Pich	EFT	University of Valencia
EXP	TH	Gavin Salam	Jet reconstruction (TH)	University of Oxford
	TH	Veronica Sanz	Data interpretation	University of Sussex
		Michele Selvaggi	Delphes	CERN
		Nicholas Wardle	Fitting	Imperial College
		Steven Schramm	Jet reconstruction	Universite de Geneve

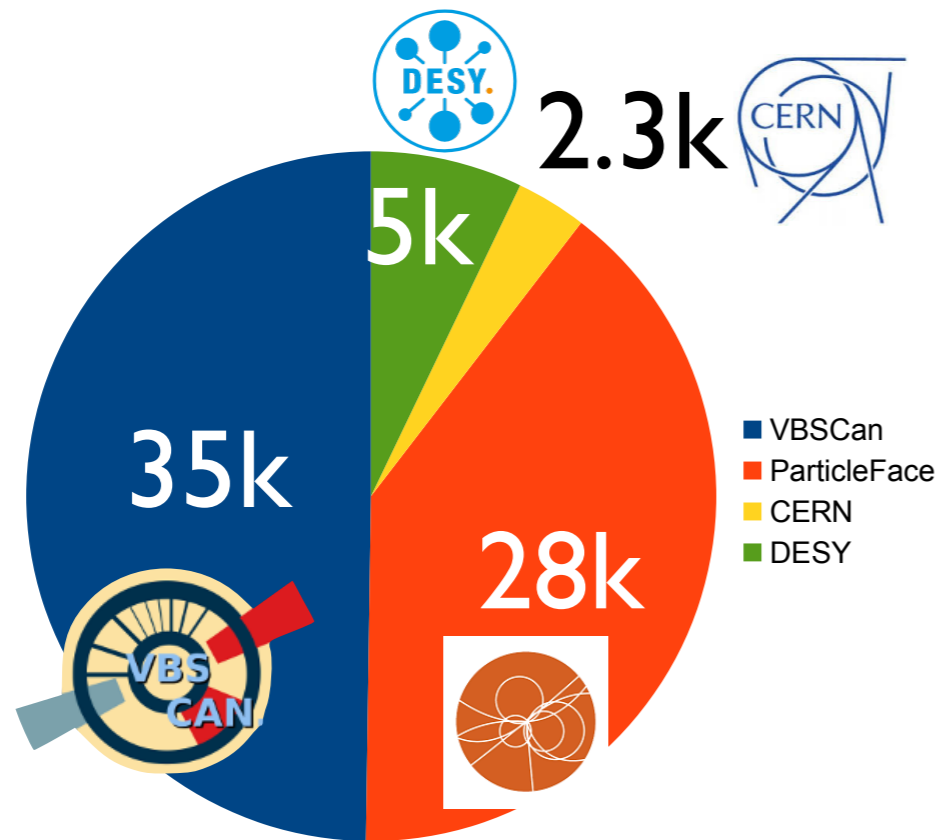
- Top-level lecturers, evenly shared among TH/EXP
- Topics extremely relevant for today needs of HEP
- Lecturers will assign projects to students

Some numbers

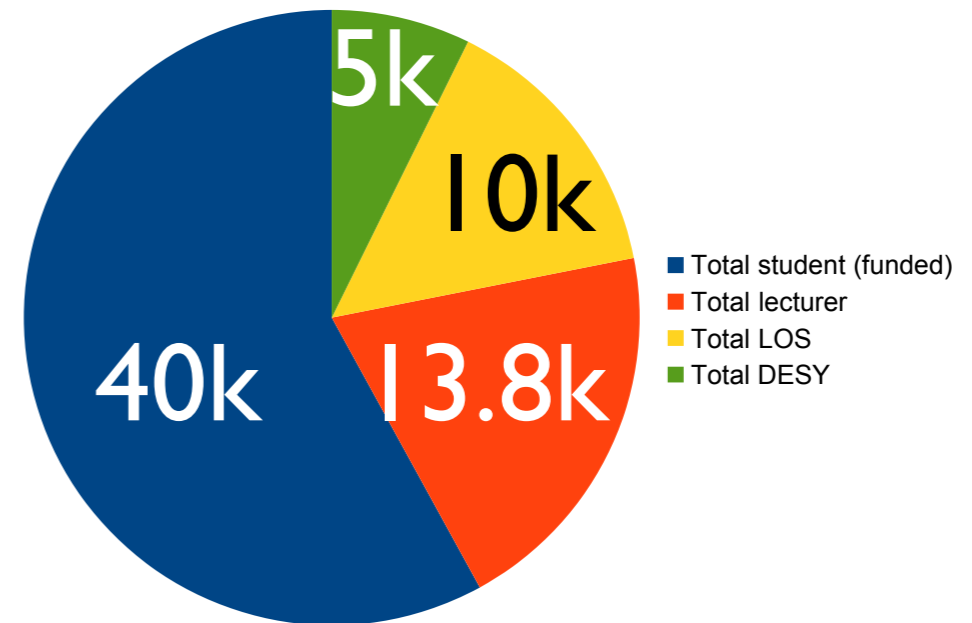
- Registrations open for 3 months (Sept.2019 - Dec. 2019)
- ~110 applicants, ~70 eligible for COST support
- Evenly shared between TH and EXP
- Number had to be cut to 80 (max capacity of DESY room due to safety regulations)
- Students have undergone evaluation by the OrgCom
- Final selection, 80 students, 42 receiving support (budget constraints)
- COST inclusiveness policy taken into account for evaluation
 - All students from ITC (9) have been granted support
 - All women (12) have been granted support. In total 18 women attending the school

Budget

- Total budget: 70kEuro



Funding share



Cost share

Outlook

- The school will start in less than two weeks
- Successful format, proven by the high number of applications, and hopefully confirmed during/after the school
- Looking forward to it!