Beg Rohu 2015

The Beg Rohu Summer School trains every year 50 students on one of the most important and timely topics of statistical physics. The 2015 session was focused on recent advances in complex systems with a particular focus on biology.

Webpage of the school : http://ipht.cea.fr/Meetings/BegRohu2015/index.php

The 2015 session of the Beg Rohu Summer School of statistical physics and condensed matter centred on applications of statistical physics to complex systems with a particular focus on biology. The other topics were networks, inference and some applications to social science. In the last decade there has been a lot of progress in these fields, which by now are one of the main centers of activity in statistical physics. The aim of the 2015 session was to introduce students to these new and important facets of statistical physics. The lectures provided the motivations, the context, the main concepts and also the main technical tools developed to tackle these new challenging scientific problems. We chose them between the most influential and pedagogical researchers in the field of statistical physics of complex systems:

W. Bialek (Princeton University USA)
J.-P. Bouchaud (Capital Fund Management France)
M. Lassig (Koln University, Germany)
C. Moore (Santa Fe Institute USA)
P. Vivo (King's College London)

We had more than 120 good applications from which we selected 50 students. They came from major universities (Harvard, ENS, MIT, Princeton, Cambridge, …) from all over the world (France, Italy, Germany, UK, USA, Israel, Japan, Corea,….)

Figure: Examples of complex systems. Statistical physics provides new concepts and methods to study these systems.