

LABORATORI NAZIONALI DEL GRAN SASSO

SEMINAR ANNOUNCEMENT

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***Methodology of
experiment and
dynamics of big science***

As a philosopher of science, I have conducted a field work in OPERA experiment (F-lab, Nagoya university), and found research questions from the actual spot of science. In this seminar, I argue on two topics and want to get opinions from various scientists.

First topic is what I call "Methodology of experiment", that is "the way experimenters continue to run experiments properly within limited resources (money, time, man power)". From wide-ranging methodology, I present methodology of trouble handling and methodology of activity management with case studies.

Second topic is "Dynamics of big science". The question such as "if we go back into history and restart science, will we reach the same knowledge system as we have presently?" has been sometimes asked (what can be called the problem of "contingency of science"). I focus on by-product of experiments and interrelation of multiple experiments, and make explicit which points should be taken into account (especially in the field of particle physics) for answering that somewhat abstract question.

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