
SOE 7: Networks and Social Systems (Invited Talk Luis Amaral)

Time: Tuesday 9:30–10:15

Location: GÖR 226

Invited Talk

SOE 7.1 Tue 9:30 GÖR 226

Measuring the scientific impact of research using bibliometric analysis — •LUIS AMARAL — Northwestern University/ HHMI, Evanston USA

In spite of its importance, how or even whether to quantify scientific impact remains a source of controversy within the scientific community. For example, the *San Francisco Declaration on Research Assessment* has called for “the need to eliminate the use of journal-based metrics, such as Journal Impact Factors, in funding, appointment, and promo-

tion considerations.” It is ironic that, in spite of the fact that measurement is a core component of science itself, many scientists are recommending a move away from measurement and quantification. However, the scientific method is about improving imperfect theories and measurement techniques, rather than discarding them. In my view, the scientific community, must strongly support the development of better bibliometric evaluation tools instead of opposing their use. In this talk, I will review the state-of-the-art on using bibliometric analysis to measure scientific impact of individuals, departments and journals.