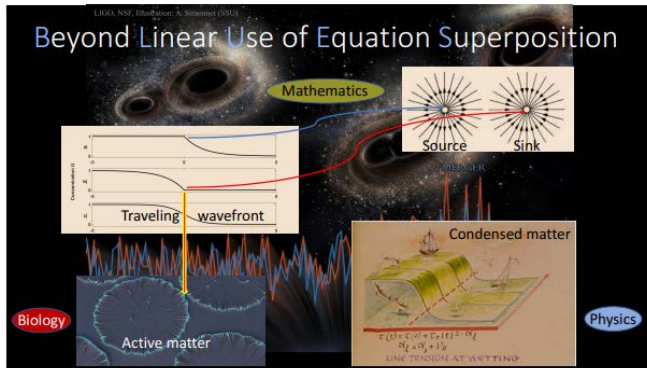


# Special LASSP Seminar



**Friday  
July 13, 2018**

**416 Physical Sciences  
Building**

**11 A.M.**

**Joseph Indekeu**

Institute for Theoretical Physics  
KU Leuven  
Belgium

## **BLUES Function Method in Physics**

A computational method in physics is proposed that goes "beyond linear use of equation superposition" (BLUES). A BLUES function is defined as a solution of a nonlinear differential equation (DE) with a delta source that is at the same time a Green's function for a related linear DE. For an arbitrary source, the BLUES function can be used to construct an exact solution to the nonlinear DE with a different, but related source. Alternatively, the BLUES function can be used to construct an approximate piecewise analytical solution to the nonlinear DE with an arbitrary source.

*Hosted by Carl Franck*