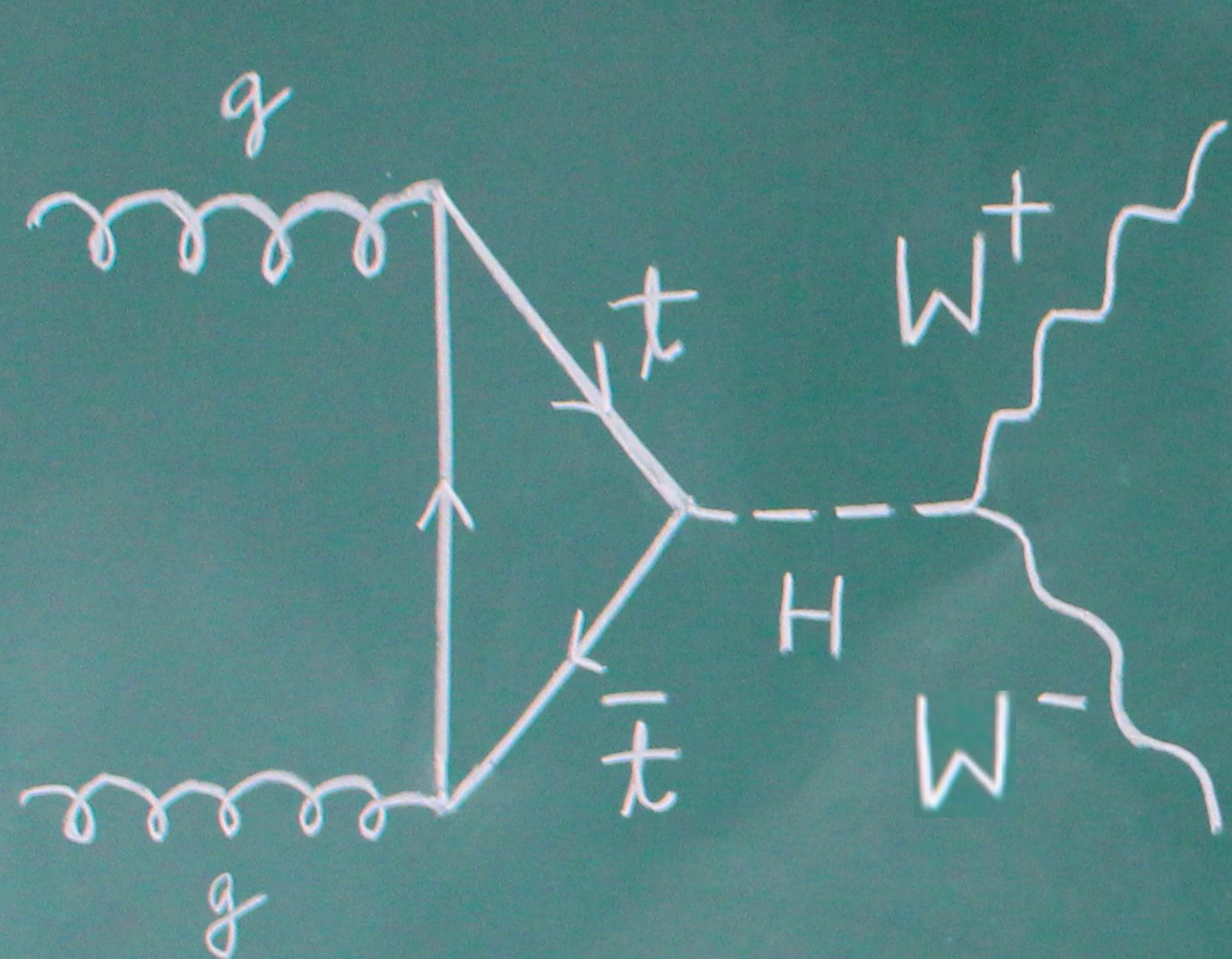


The Institute of
Mathematical Sciences



$$\mathcal{L}_{SM} = -\frac{1}{4}W_{\mu\nu} \cdot W^{\mu\nu} - \frac{1}{4}B_{\mu\nu}B^{\mu\nu} - \frac{1}{4}G_{\mu\nu}^a G_a^{\mu\nu}$$

$$+ \bar{\Psi}_L \gamma^\mu (i\partial_\mu - \frac{1}{2}g\tau \cdot W_\mu - \frac{1}{2}g'YB_\mu) \Psi_L + \bar{\Psi}_R \gamma^\mu (i\partial_\mu - \frac{1}{2}g'YB_\mu) \Psi_R$$

$$+ \frac{1}{2} |(i\partial_\mu - \frac{1}{2}g\tau \cdot W_\mu - \frac{1}{2}g'YB_\mu) \phi|^2 - V(\phi)$$

$$+ g''(q' \gamma^\mu T_a q) G_\mu^a + (G_1 \bar{\Psi}_L \phi \Psi_R + G_2 \bar{\Psi}_L \phi_c \Psi_R + h.c.)$$

Madgraph School 2019

18-22 Nov. | IMSc | Chennai

Computation of various important observables within the framework of quantum field theory is important to understand the data from the LHC. This school aims to provide exposure to the young graduate students and post doctoral fellows various aspects of these computations through a state-of-the-art tool namely MadGraph5_aMc@NLO in detail.

Speakers

Benjamin Fuks (LPTHE/Sorbonne U.)
Leif Gellersen (Lund University)
Fabio Maltoni (UCLouvain)
Olivier Mattelaer (UCLouvain)
Kentarou Mawatari (Iwate U.)
Ken Mimasu (UCLouvain)
Richard Ruiz (UCLouvain)
Hua-Sheng Shao (LPTHE Paris)
Ambresh Shivaji (IISER Mohali)

Organizers

Fabio Maltoni
Olivier Mattelaer

Prakash Mathews
V. Ravindran

**Venue : Alladi Ramakrishnan
Hall, IMSc**

Program Webpage

<https://indico.cern.ch/event/829653/>

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DEPARTMENT OF
SCIENCE & TECHNOLOGY

सत्यमेव जयते