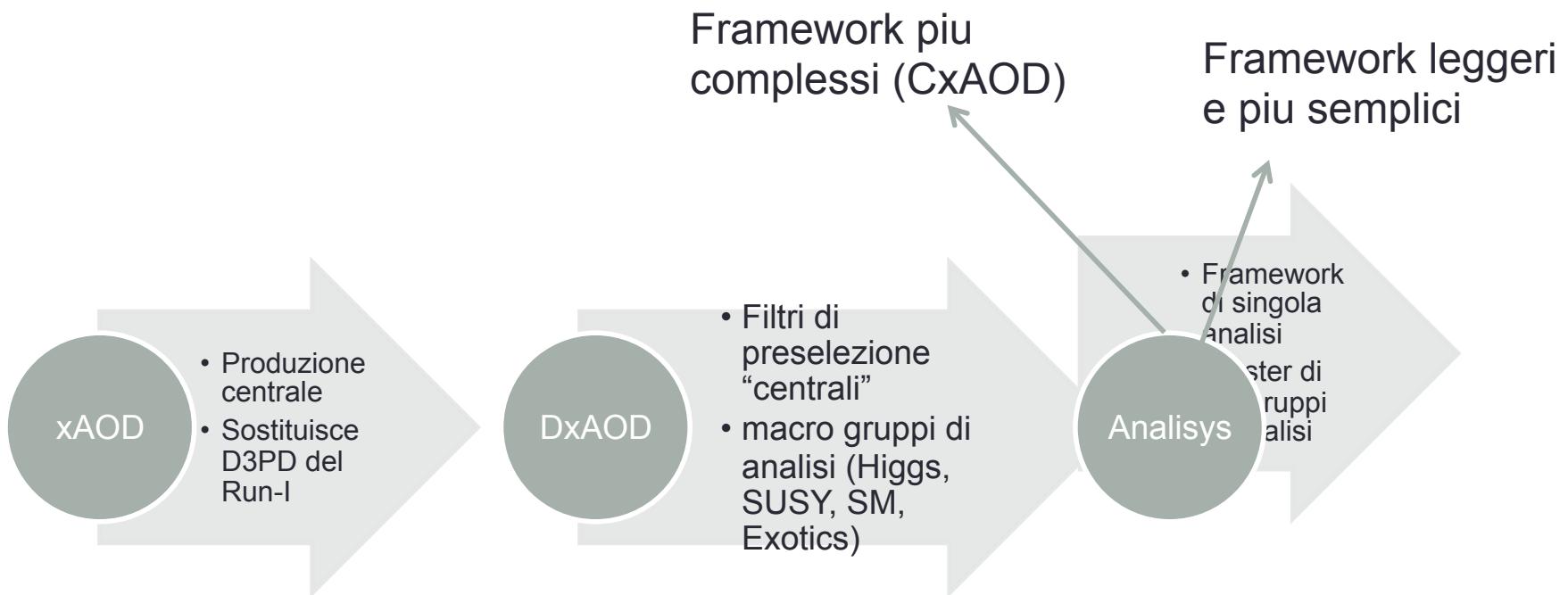


REPORT ANALISI

Francesco Conventi

Modello di analisi Run-II



Tool online ricerca dei campioni DxAOD MC/data:

<http://atlasui02.na.infn.it:8088/~sanchez/ATLAS/monitor/filterdxaodextended.html>

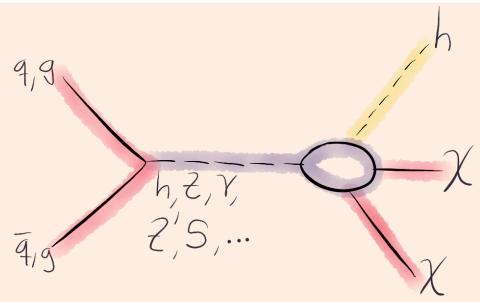
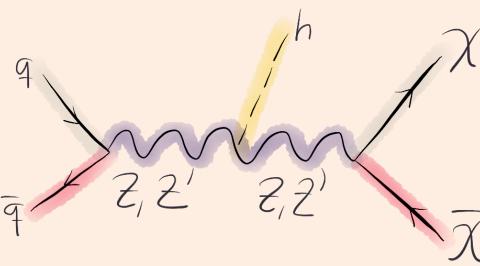
Analisi in corso per il Run-II

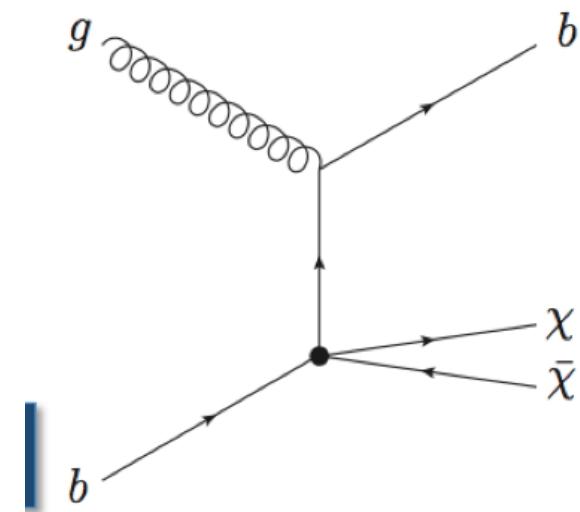
- Ricerca di fisica oltre il Modello Standard:
- MonoX: monoH, mono(b)jet **NA+RM+HARVARD**
- H BSM: High mass Higgs (2jets + leptoni)

MonoX

N. Whallon's talk, 16/12/14: indico.cern.ch/event/351524/
Models based on arxiv.org/pdf/1312.2592v2.pdf

- Ricerche BSM model ~independent (SUSY, DM, ED)

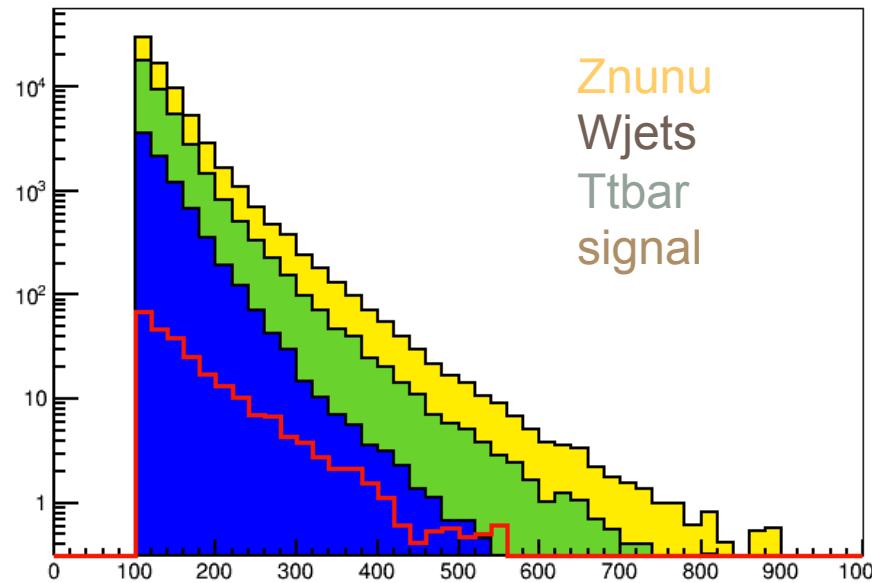
Mono-H models	Motivation
	EFT modelling coupling 4-point coupling $HZXX$ and $H\gamma^*XX/HZXX$
	Simplified model for the production of WIMP with a Higgs final state



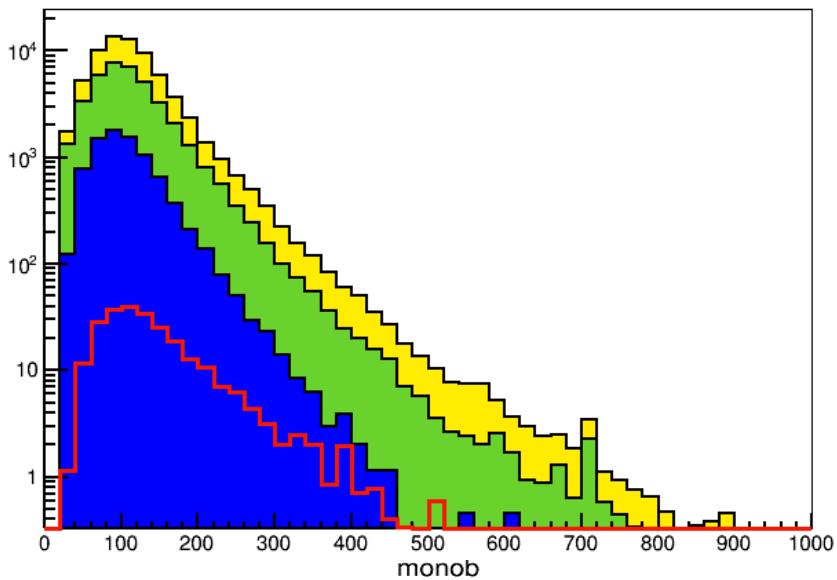
MonoX

MET

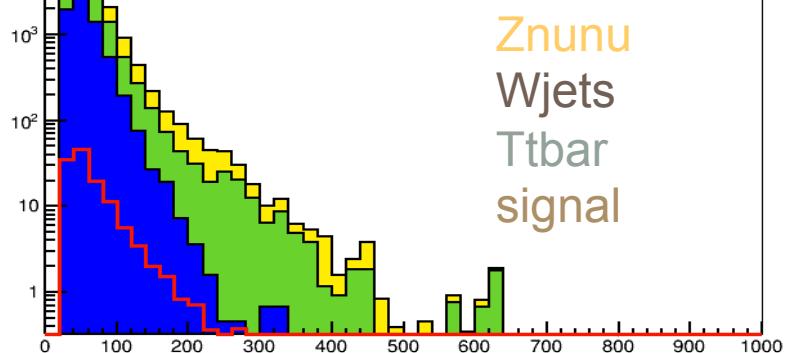
monob



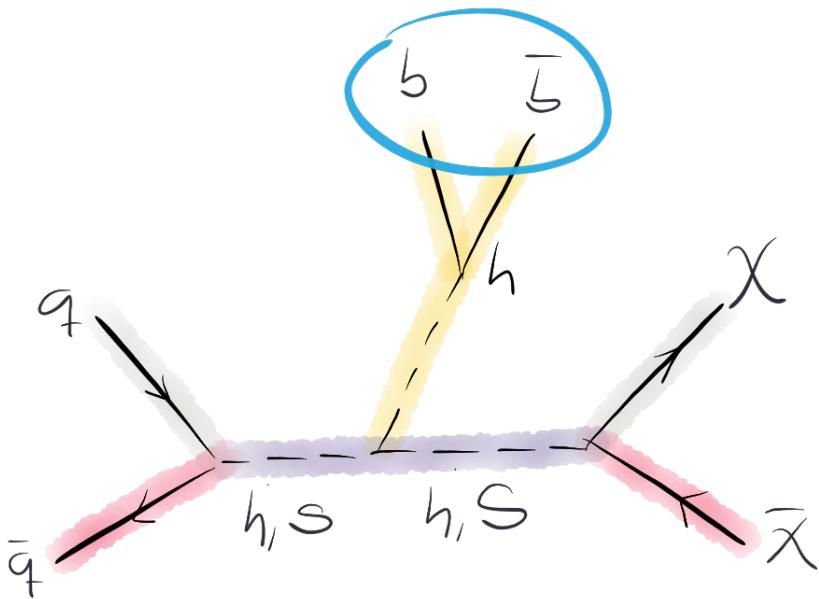
pT leading jet monob



pT subleading jet



MonoH



Signature: MET + jets

Analysis splitted for **resolved** (MET< 500 GeV) and **boosted** channel (MET> 500 GeV)

Background:

Zvv, W+jets, tt, SM H (H \rightarrow bb, WH, ZH)

CDS links of the Run-I support note:

- Resolved:

<https://cds.cern.ch/record/1977384>

- Boost:

<https://cds.cern.ch/record/2008236>