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Status	Title	Contact person	Data set	Software	CADI
Published	Jet-by-jet gap events	Cristian	13 TeV	SMPJ (?)	SMP-19-00
Submitted	Multi-jet differential	Luis Ignacio	EOY16	DAS	SMP-21-00
CWR soon	Dijet cross sections	Daniel	EOY16	DAS (2D) & Karma (3D)	SMP-21-00
	Inclusive jets	John	5 TeV	SMPJ	SMP-21-00
$\begin{array}{c c} \operatorname{ESV} \\ R_{\Delta} \\ \operatorname{Lunc} \end{array}$	Jet mass in Z+jets	Ashley	FR2 EOY		SMP-20-00
	ESV with charged particles	Suman	FR2 UL		SMP-22-00
	$R_{\Delta\phi} \& \alpha_S$	Paris	EOY16 + UL17/18	DAS	SMP-22-00
	Lund jet plane	Cristian	FR2 UL	SMPJ	SMP-22-00
	Exclusive 2-track	Ferenc	13 TeV		SMP-21-00
WG stage	n-subjettiness	Kaustuv	UL (not FR2?)		SMP-22-00
	E3C/E2C	Chenfeng & Meng	UL16	SMPJ (?)	SMP-22-01
	Inclusive b jets	Patrick	EOY16 (?)	DAS	SMP-17-00
	Glueballs	Frici	low PU		
	Gluon fractions	John	8 & 13 TeV	SMPJ (?)	
	Instantons / ESV in MB	Weijie	13 TeV		
	Jet charge observables	Soumyadip	FR2 UL		
	MN jets	Mats	13 TeV	DAS	
	Multi-jet ratios	Argyro & Pol	FR2 UL	DAS	
	Single diffr. p+WZJ	Martijn & Michael	2017H low PU		
	UL Inclusive jets	Valentina & Laura	Run 2	SMPJ & DAS	
	Diffractive dijets	Cristian	Run 2		
	Low- p_{T} trijets	Al-Mashad	low PU		
	Energy correlators in jets	Simon	UL17		
	High- $p_{ m T}$ subjet analysis	A. Criss, C. Tully	?		

Installation on naf

1. Setup naf: source setup_naf.sh

```
#!/bin/sh
module use -a /afs/desy.de/group/cms/modulefiles/
module load cmssw
ls -la /cvmfs/cms.cern.ch/
source /cvmfs/cms.cern.ch/cmsset_default.sh
```

2 Install Darwin

```
https://gitlab.cern.ch/DasAnalysisSystem/Darwin.git
cd Darwin
source setup
make clean
make
```

(don't use make -j)

3. Use Core within Darwin

```
cd Darwin/CMSSW_12_4_0/src
cmenv
scram b -j `nproc`
```

- 4. make Ntupliser/src directory and put RivetNtupliser.cc and BuildFile.xml there and python config file.
- 5. Install Core: source setup_DAS.sh and build the Rivet

```
#!/bin/bash
cmsrel CMSSW_10_6_30
cd CMSSW_10_6_30/src
cmsenv
git clone https://gitlab.cern.ch/gparaske/Core.git
git checkout Rivet
scram b -j `nproc`
```

Running RivetNtuplizer

Running cd Ntupliser && tree displays all the different directories and files in each directory

tree