



# ATLAS Note

Version 0.2

May 7, 2021



## EXOT group text snippets for INT notes

ATLAS EXOT Group

This note contains text snippets and tables that should be included in supporting notes from the EXOT group.

The templates are in American English. If wanted, some adaption to British English could be made.

This document was generated using version 11.2.0 of the ATLAS  $\LaTeX$  package.

# Contents

|          |                                  |           |
|----------|----------------------------------|-----------|
| <b>1</b> | <b>Introduction</b>              | <b>2</b>  |
| <b>2</b> | <b>Executive Summary</b>         | <b>2</b>  |
| 2.1      | Target                           | 4         |
| 2.2      | Context and Motivation           | 4         |
| 2.3      | Milestones                       | 4         |
| <b>3</b> | <b>Data and MC</b>               | <b>5</b>  |
| <b>4</b> | <b>Object selection</b>          | <b>5</b>  |
| 4.1      | Electron selection               | 6         |
| 4.2      | Photon selection                 | 7         |
| 4.3      | Muon selection                   | 8         |
| 4.4      | Tau selection                    | 9         |
| 4.5      | Small- $R$ jet selection         | 10        |
| 4.6      | Large- $R$ jet selection         | 11        |
| 4.7      | $E_T^{\text{miss}}$ selection    | 11        |
| 4.8      | Jet flavor tagging selection     | 13        |
| 4.9      | Track selection                  | 14        |
| 4.10     | Overlap removal                  | 15        |
| <b>5</b> | <b>Event selection</b>           | <b>16</b> |
| 5.1      | Event cleaning                   | 17        |
| <b>6</b> | <b>Background Modelling</b>      | <b>18</b> |
| <b>7</b> | <b>Systematic Uncertainties</b>  | <b>18</b> |
| 7.1      | Experimental                     | 19        |
| 7.2      | Theory/Modelling                 | 19        |
| <b>8</b> | <b>Statistical Model/Results</b> | <b>21</b> |

## 1 Introduction

*This is a very brief, almost “abstract-like” section. Immediately following is the Executive Summary, which should include all of the components that are sometimes in an introduction but they are organized in a way that will facilitate review by conveners since they are in a standard way*

## 2 Executive Summary

*This section, ideally 2-pages (max), should be placed at the beginning of the internal note following the more conventional introduction. It should be split as highlighted here and should give a high-level overview of the analysis including (but not limited to):*

- *Motivation, physics target, and the general characteristics of the signal*
- *Analysis strategy*
- *General characteristics of the control, validation, and signal regions*
- *Background estimation strategy overview*
- *Highlight major or most important points of the analysis*
- *Team overview task list including a list of all critical tasks, who is responsible for each task, and what else they are working on outside of this analysis. This should be presented in the format shown in Table [1](#).*
- *List of outstanding items in the analysis that still need to be addressed*

## 2.1 Target

*O*(1 paragraph) Is this a new analysis? If not, what are the main improvements expected with respect to the previous version? What is the target publication date / conference?

## 2.2 Context and Motivation

Motivate this analysis in 1 paragraph: why is this signature interesting? Which kind of models are you probing?

How is the analysis done in 1 paragraph: what are the main BG processes and how do you estimate them (are they MC- or data-driven, what is the general idea of the control regions, . . . ), general characteristics of the PL fit (which distribution, binned?, . . . )

## 2.3 Milestones

Table giving a factual list of who is working on what and what else they do; the idea is to show how the team can / does progress. Including dates for completion of these milestones will help further demonstrate that you are ready for the collaboration review, in the form of an editorial board.

The following table summarizes the tasks to be worked on by analysis team. This is not a complete analysis outline but only an overview of the further steps to be taken as of the time of writing. Details are not provided here but in the dedicated sections throughout this note. Tasks which are based on established techniques and straightforward to achieve are marked green in the table. Tasks which require new work are marked red. Concerning the involved people, the responsible student supervisors and analysis coordinators are already mentioned in the list of contributions above, which shall not be repeated here. A fair overview of all single tasks including past work and of all relevant team members is only given in the list of contributions above! It is also worth noting that some of the tasks listed below are being worked on in parallel.

Table 1: Milestones in the analysis.

| Task                               | Analyzer | Role                            | Other responsibilities                                    |
|------------------------------------|----------|---------------------------------|---|
| <b>Describe a first milestone.</b> |          |                                 |   |
| A straightforward task             | Name     | PhD student, PostDoc/Prof/. . . | thesis writing<br>/ teaching<br>/ name some CP work . . . |
| <b>Describe a second milestone</b> |          |                                 |   |
| First task . . .                   |          |                                 |   |

### 3 Data and MC

*Dataset used with blinding strategy, full list of background samples and details of the signal samples.*

### 4 Object selection

*The supporting notes should now include the following standardized tables of properties: each analysis should simply fill them in by writing / replacing the value with the appropriate number or by choosing the appropriate option. The idea of these tables is to harmonize some sections of the supporting notes as to make review and analysis comparisons simpler.*

*If you use non-standard selections which do not fit in these tables, this should of course be noted and discussed in more detail in the text.*

*Object selection tables (following template) and detailed event selection: there may, of course, still be some minor open items, as long as they don't significantly affect the analysis strategy, but these should be well defined and clearly indicated (e.g. coloured/bold) in the text in this section and in the list of outstanding tasks within the executive summary. Both should be updated as the analysis progresses.*

## 4.1 Electron selection

Table 2: Electron selection criteria.

| Feature                     | Criterion  |
|-----------------------------|--|
| Pseudorapidity range        | $ \eta  < X$   |
| Energy calibration          | es2017_R21_PRE (ESModel)   |
| Energy                      | $E > XX \text{ GeV}$   |
| Transverse energy           | $E_T > XX \text{ GeV}$   |
| Transverse momentum         | $p_T > XX \text{ GeV}$   |
| Object quality              | Not from a bad calorimeter cluster (BADCLUSELECTRON)<br>Remove clusters from regions with EMEC bad HV (2016 data only) |
| Track to vertex association | $ d_0^{\text{BL}}(\sigma)  < X$<br>$ \Delta z_0^{\text{BL}} \sin \theta  < X \text{ mm}$                               |
| Identification              | (Loose/Medium/Tight)   |
| Isolation                   | LooseTrackOnly / Loose / Tight / Gradient / ...  |

Notes:

- Pseudorapidity: when the calorimeter crack is not excluded, the range can be indicated simply as “ $|\eta| < 2.47$ ”, when the crack is excluded: “( $|\eta| < 1.37$ ) || ( $1.52 < |\eta| < 2.47$ )”.
- Usually only one among “Energy”, “Transverse energy” and “Transverse momentum” criteria is applied — the 30 GeV value is just an example. In special cases energy (i.e. calorimeter-based measurement) and momentum (i.e. tracking-based measurement) criteria can be required in order to constraint different aspects of the reconstruction.
- Electron ID: 3 working points (Loose/Medium/Tight) are evaluated using the Likelihood-based (LH) method, by the [ElectronPhotonSelectorTools](#).
- Energy calibration of electrons is implemented in the [ElectronPhotonFourMomentumCorrection](#) tool.
- Scale Factors for efficiencies for electrons are implemented in the [ElectronEfficiencyCorrection](#) tool.
- Updated configurations for the EGamma CP tools can be found on this [TWiki](#) page.

## 4.2 Photon selection

Table 3: Photon selection criteria.

| Feature              | Criterion  |
|----------------------|--|
| Pseudorapidity range | $ \eta  < X$   |
| Energy calibration   | es2017_R21_PRE (ESModel)   |
| Energy               | $E > XX \text{ GeV}$   |
| Transverse energy    | $E_T > XX \text{ GeV}$   |
| Object quality       | Not from a bad calorimeter cluster (BADCLUSELECTRON)<br>Remove clusters from regions with EMEC bad HV (2016 data only) |
| Photon cleaning      | pass0Qquality  |
| Fudging              | Applied for Full sim / not for AtlFastII   |
| Identification       | (Loose/Tight)  |
| Isolation            | FixedCutTightCaloOnly / FixedCutTight / FixedCutLoose  |

Notes:

- Pseudorapidity: please note that the maximum value for  $|\eta|$  for photon candidates (2.37) is smaller than for electron candidates (2.47). If crack excluded: “ $(|\eta| < 1.37) \quad || \quad (1.52 < |\eta| < 2.37)$ ”.
- Usually only one between “Energy” and “Transverse energy” criteria is applied — the 30 GeV value is just an example.
- Photon cleaning: a new Photon helper is available to apply the photon cleaning cut (from the `ElectronPhotonSelectorTools`, tag  $\geq 00-02-92-21$ , release  $\geq 2.4.30$ ).
- Photon ID: 2 working points (Loose/Tight) are evaluated using a cut-based method, by the [ElectronPhotonSelectorTools](#).
- Energy calibration of photons is implemented in the [ElectronPhotonFourMomentumCorrection](#) tool.
- Scale Factors for efficiencies for photons are implemented in the [ElectronEfficiencyCorrection](#) tool.
- Updated configurations for the EGamma CP tools can be found on this [TWiki](#) page.

### 4.3 Muon selection

Table 4: Muon selection criteria.

| Feature                 | Criterion                               |
|-------------------------|---|
| Selection working point | Loose/Medium/Tight /High-pT             |
| Isolation working point | LooseTrackOnly/Loose/Tight/Gradient/... |
| Momentum calibration    | Sagitta correction [used/not used]      |
| $p_T$ Cut               | $X$ GeV                                 |
| $ \eta $ cut            | $< X$                                   |
| $d_0$ significance cut  | $X$                                     |
| $z_0$ cut               | $X$ mm                                  |

The selection criteria are implemented in the MuonSelectorTools-XX-XX-XX with MuonMomentumCorrections-XX-XX-XX, isolation in IsolationSelection-XX-XX-XX and  $d_0$  and  $z_0$  cuts in xAODTracking-XX-XX-XX. The muon recommendations can be found in [MCPAnalysis-GuidelinesMC16](#).



## 4.4 Tau selection

Table 5: Tau selection criteria.

| Feature              | Criterion   |
|----------------------|---|
| Pseudorapidity range | $ \eta  < X$  |
| Track selection      | 1 or 3 tracks   |
| Charge               | $ Q  = 1$   |
| Tau energy scale     | MVA TES   |
| Transverse momentum  | $p_T > XX \text{ GeV}$  |
| Jet rejection        | BDT-based (Loose/Medium/Tight)  |
| Electron rejection   | BDT-based   |
| Muon rejection       | Via overlap removal in $\Delta R < 0.2$ and $p_T > 2 \text{ GeV}$ . Muons must not be Calo-tagged |

If the crack is excluded:  $(|\eta| < 1.37) \vee (1.52 < |\eta| < 2.5)$

The selection criteria are all implemented in the `TauSelectionTool` as part of the `TauAnalysisTools`. Documentation can be found in the [README-TauSelectionTool.rst](#).

## 4.5 Small- $R$ jet selection

If you want to use variables such as `\fcut` you need to add the option `jetetmiss` to `atlaspackage`.

Table 6: Jet reconstruction criteria.

| Feature                     | Criterion  |
|-----------------------------|--|
| Algorithm                   | Anti- $k_t$  |
| $R$ -parameter              | 0.4  |
| Input constituent           | EMTopo   |
| Analysis release number     | 21.2.10  |
| CalibArea tag               | 00-04-81   |
| Calibration configuration   | JES_data2017_2016_2015_Recommendation_Feb2018_rel21.config                     |
| Calibration sequence (Data) | JetArea_Residual_EtaJES_GSC_Insitu   |
| Calibration sequence (MC)   | JetArea_Residual_EtaJES_GSC  |
| Selection requirements      |  |
| Observable                  | Requirement  |
| Jet cleaning                | LooseBad   |
| BatMan cleaning             | No   |
| $p_T$                       | $> XX \text{ GeV}$   |
| $ \eta $                    | $< X$  |
| JVT                         | <i>(Update if needed)</i> $> 0.59$ for $p_T < 60 \text{ GeV}$ , $ \eta  < 0.4$ |

## 4.6 Large- $R$ jet selection

Table 7: Large- $R$  jet reconstruction criteria.

| Feature                     | Criterion  |
|-----------------------------|--|
| Algorithm                   | anti- $k_t$  |
| R-parameter                 | 1.0  |
| Input constituent           | LCTopo   |
| Grooming algorithm          | Trimming   |
| $f_{\text{cut}}$            | 0.05   |
| $R_{\text{trim}}$           | 0.2  |
| Analysis release number     | 21.2.10  |
| CalibArea tag               | 00-04-81   |
| Calibration configuration   | JES_MC16recommendation_FatJet_JMS_comb_19Jan2018.config  |
| Calibration sequence (Data) | EtaJES_JMS_Insitu  |
| Calibration sequence (MC)   | EtaJES_JMS   |
| Selection requirements      |  |
| Observable                  | Requirement  |
| $p_T$                       | $> \text{XX GeV}$  |
| $ \eta $                    | $< X$  |
| Mass                        | $> \text{XX GeV}$  |
| Boosted object tagger       |  |
| Object                      | Working point  |
| $W / Z / \text{top}$        | 50% / 80%  |
| $X \rightarrow b\bar{b}$    | single/double $b$ -tagging with/without loose/tight mass |

## 4.7 $E_T^{\text{miss}}$ selection

Table 8:  $E_T^{\text{miss}}$  reconstruction criteria.

| Parameter                                     | Value                 |
|---|-----------------------|
| Algorithm                                     | Calo-based            |
| Soft term                                     | Track-based (TST)     |
| MET operating point                           | Tight                 |
| Analysis release                              | 21.2.16               |
| Calibration tag                               | METUtilities-00-02-46 |
| Selection requirements                        |                       |
| Observable                                    | Requirement           |
| $E_T^{\text{miss}}$                           | $> \text{XX GeV}$     |
| $\sum E_T/E_T^{\text{miss}}$                  | $< X$                 |
| Object-based $E_T^{\text{miss}}$ significance | $> X$                 |

## 4.8 Jet flavor tagging selection

Table 9:  $b$ -tagging selection criteria.

| Feature         | Criterion   |
|-----------------|---|
|                 | EM Topo Jets / Track jets / VR jets                             |
| Jet collection  | AntiKt4EMTopo/AntiKt2PV0/AntiKtVR30Rmax4Rmin02                  |
| Jet selection   | $p_T > XX \text{ GeV}$<br>$ \eta  < X$<br>JVT cut if applicable |
| Algorithm       | MV2c10/MV2c10mu/MV2c10rnn/DL1/DL1mu/DL1rnn                      |
| Operating point | Hybrid / Fixed<br>Eff = 60 / 70 / 77 / 85                       |
| CDI             | 2017-21-13TeV-MC16-CDI-2017-12-22_v1                            |

## 4.9 Track selection

If you use tracks as particular objects on which you cut in your analysis.

Table 10: TrackParticle object selection criteria.

|                                    |  |
|------------------------------------|--|
| Tracking algorithm                 | Primary / Large Radius Tracking / Custom |
| Track quality selection (official) | Loose/Tight                              |
| $p_T$                              | $> XX \text{ GeV}$                       |
| $ \eta $                           | $< X$                                    |
| Track-vertex association criteria  | Loose/Tight                              |
| Track-to-tet association method    | Ghost Matched / $\Delta R$               |

## 4.10 Overlap removal

The reconstruction of the same energy deposits as multiple objects is resolved using the standard overlap removal tools, `AssociationUtils`, documented [here](#)

The (Standard/Heavy-flavor/Boosted/Boosted+Heavy-flavor/lepton-favored) working point is used corresponding to:

| Reject   | Against  | Criteria  |
|----------|----------|---|
| Electron | Electron | shared track, $p_{T,1} < p_{T,2}$   |
| Tau      | Electron | $\Delta R < 0.2$  |
| Tau      | Muon     | $\Delta R < 0.2$  |
| Muon     | Electron | is Calo-Muon and shared ID track  |
| Electron | Muon     | shared ID track   |
| Photon   | Electron | $\Delta R < 0.4$  |
| Photon   | Muon     | $\Delta R < 0.4$  |
| Jet      | Electron | $[\Delta R < 0.2 / \text{Not a } b\text{-jet and } \Delta R < 0.2]$   |
| Electron | Jet      | $[\Delta R < 0.4 / \Delta R < \min(0.4, 0.04 + 10 \text{ GeV}/p_T(e))/\text{None}]$   |
| Jet      | Muon     | $[\text{NumTrack} < 3 \text{ and (ghost-associated or } \Delta R < 0.2) /$<br>not a $b$ -jet and $\text{NumTrack} < 3 \text{ and (ghost-associated or } \Delta R < 0.2)]$ |
| Muon     | Jet      | $[\Delta R < 0.4 / \Delta R < \min(0.4, 0.04 + 10 \text{ GeV}/p_T(\mu))/\text{None}]$   |
| Jet      | Tau      | $\Delta R < 0.2$  |
| Photon   | Jet      | $\Delta R < 0.4$  |
| Fat-jet  | Electron | $\Delta R < 1.0$  |
| Jet      | Fat-jet  | $\Delta R < 1.0$  |

$\Delta R$  is calculated using rapidity by default.

## 5 Event selection

*The following items should also be filled in for the event selection. There may, of course, still be some minor open items, as long as they don't significantly affect the analysis strategy, but these should be well defined and clearly indicated (e.g. coloured/bold) in the text in this section and in the list of outstanding tasks within the executive summary. Both should be updated as the analysis progresses.*



## 5.1 Event cleaning

Following the [recommendations of the DataPrep group](#), the following event-level requirements are made.

We use the official GRL:

FILL IN HERE

The following event-level vetos are made to reject bad / corrupt events:

- LAr noise burst and data corruption (`xAOD::EventInfo::LAr`),
- Tile corrupted events (`xAOD::EventInfo::Tile`),
- events affected by the SCT recovery procedure for single event upsets (`xAOD::EventInfo::SCT`),
- incomplete events (`xAOD::EventInfo::Core`).

Debug stream events [have/have not] been included.

Checks [have/have not] been done to remove duplicate events.

Events are required to have a primary vertex with at least two associated tracks. The primary vertex is selected as the one with the largest  $\Sigma p_T^2$ , where the sum is over all tracks with transverse momentum  $p_T > 0.4$  GeV that are associated with the vertex.

## 6 Background Modelling

*After outlining the object and event selection, noting possible outstanding points that still need to be addressed to freeze the selection, you should demonstrate that you can analyze the dataset that you intend to publish. This should include CR/VR plots for the main backgrounds with the full data (full run-2 analyses) or at least a representative majority of the data (analyses during data-taking); for the more minor backgrounds this may still be in progress but an outline of the planned method should be present.*

## 7 Systematic Uncertainties

*Several systematics may still be missing but the note should include a proposed plan listing the CP systematics you will need to consider in this analysis (+ timescale on which they will be available if not already) and an outline of how the systematics on the backgrounds are proposed to be determined. If not statistics-limited, the most dominant systematic(s) should be present.*

Systematic uncertainties arise from the reconstruction of the various physics objects and from theoretical and/or modelling uncertainties affecting the predictions for both the backgrounds and signals. These uncertainties manifest themselves as uncertainties both in the overall yield and shape of the final observable.

## 7.1 Experimental

A summary of the experimental systematic uncertainties taken into account in this analysis is given in Table 11, along with the shorthand name of the uncertainty used throughout the analysis.

*Include also subsections for each of the individual descriptions of the uncertainty groups and the source where they come from. If the recommendation is not available at this time, state that in the section.*

## 7.2 Theory/Modelling

*Modelling uncertainties can be analysis specific in the case of the background. However, you should have a clear idea for your analysis how you will estimate these uncertainties. If you are doing an MC-based background estimation, describe the sources of these uncertainties and the comparisons that you will make. If you are doing a data driven estimation, describe the sources.*

*For signal yield uncertainties, these uncertainties are evaluated in a standard way and should include PDF variations and renormalization/factorization scale variations. There is more information provided on the PMG TWiki pages for this.*

| Systematic uncertainty                                      | Short description  |
|---|--|
| Event   |  |
| Luminosity  | uncertainty on the total integrated luminosity                               |
| Electrons   |  |
| EL_EFF_Trigger_TOTAL_1NPCOR_PLUS_UNCOR                      | trigger efficiency uncertainty   |
| EL_EFF_Reco_TOTAL_1NPCOR_PLUS_UNCOR                         | reconstruction efficiency uncertainty  |
| EL_EFF_ID_TOTAL_1NPCOR_PLUS_UNCOR                           | ID efficiency uncertainty  |
| EL_EFF_Iso_TOTAL_1NPCOR_PLUS_UNCOR                          | isolation efficiency uncertainty   |
| EG_SCALE_ALL  | energy scale uncertainty   |
| EG_RESOLUTION_ALL   | energy resolution uncertainty  |
| Muons   |  |
| mu20_loose_L1MU15_OR_HLT_mu40_MUON_EFF_Trig                 | trigger efficiency uncertainties (2 muon selection)                          |
| mu24_ivarmed_OR_HLT_mu40_MU_EFF_TrigStat                    |  |
| mu24_ivarmed_OR_HLT_mu50_MU_EFF_TrigStat                    |  |
| mu26_ivarmed_OR_HLT_mu50_MU_EFF_TrigStat                    |  |
| MUON_EFF_RECO_STAT  | reconstruction uncertainty for $p_T > 15$ GeV                                |
| MUON_EFF_RECO_SYS   |  |
| MUON_EFF_RECO_STAT_LOWPT                                    | reconstruction and ID efficiency uncertainty for $p_T < 15$ GeV              |
| MUON_EFF_RECO_SYS_LOWPT                                     |  |
| MUON_ISO_STAT   | isolation efficiency uncertainty   |
| MUON_ISO_SYS  |  |
| MUON_TTVA_STAT  | track-to-vertex association efficiency uncertainty                           |
| MUON_TTVA_SYS   |  |
| MUONS_SCALE   | energy scale uncertainty   |
| MUONS_SAGITTA_RHO   | variations in the scale of the momentum (charge dependent)                   |
| MUONS_SAGITTA_RESBIAS                                       | variations in the scale of the momentum (charge dependent)                   |
| MUONS_ID  | energy resolution uncertainty from inner detector                            |
| MUONS_MS  | energy resolution uncertainty from muon system                               |
| Small-R Jets  |  |
| JET_GroupedNP   | energy scale uncertainty split into 3 components                             |
| JET_SR1_JET_EtaIntercalibration_NonClosure                  | non-closure in the jet response at $2.4 <  \eta  < 2.5$                      |
| JET_SR1_JER_SINGLE_NP                                       | energy resolution uncertainty  |
| JvtEfficiency   | JVT efficiency uncertainty   |
| FT_EFF_EIGEN_B  | $b$ -tagging efficiency uncertainties ("BTAG_MEDIUM"):                       |
| FT_EFF_EIGEN_C  |  |
| FT_EFF_EIGEN_L  |  |
| FT_EFF_EIGEN_extrapolation                                  | $b$ -tagging efficiency uncertainty on the extrapolation on high $p_T$ -jets |
| FT_EFF_EIGEN_extrapolation_from_charm                       | $b$ -tagging efficiency uncertainty on $\tau$ -jets                          |
| Large-R Jets  |  |
| FATJET_JMR  | mass resolution uncertainty  |
| FATJET_JER  | energy resolution uncertainty  |
| JET_Comb_Baseline_Kin                                       | energy scale uncertainties ( $p_T$ and mass scales fully correlated)         |
| JET_Comb_Modelling_Kin                                      |  |
| JET_Comb_TotalStat_Kin                                      |  |
| JET_Comb_Tracking_Kin                                       |  |
| Track-Jets  |  |
| FT_EFF_EIGEN_B  | $b$ -tagging efficiency uncertainties ("BTAG_MEDIUM"):                       |
| FT_EFF_EIGEN_C  |  |
| FT_EFF_EIGEN_L  |  |
| FT_EFF_EIGEN_extrapolation                                  | $b$ -tagging efficiency uncertainty on the extrapolation on high $p_T$ -jets |
| FT_EFF_EIGEN_extrapolation_from_charm                       | $b$ -tagging efficiency uncertainty on $\tau$ -jets                          |
| $E_T^{\text{miss}}$ -Trigger and $E_T^{\text{miss}}$ -Terms |  |
| METTrigStat   | trigger efficiency uncertainty   |
| METTrigSyst   |  |
| MET_SoftTrk_ResoPerp  | track-based soft term related to transversal resolution uncertainty          |
| MET_SoftTrk_ResoPara  | track-based soft term related to longitudinal resolution uncertainty         |
| MET_SoftTrk_Scale   | track-based soft term related to longitudinal scale uncertainty              |
| MET_JetTrk_Scale  | track MET scale uncertainty due to tracks in jets                            |
| PRW_DATASF  | uncertainty on data SF used for the computation of pileup reweighting        |

Table 11: Qualitative summary of the experimental systematic uncertainties considered in this analysis.

## 8 Statistical Model/Results

*An overview of the final fit setup including the final discriminating variables(s), the (SR/CR) regions to be included in the fit and the floating normalisation parameters. Some rough first expected limits/discovery sensitivity plots are useful if you have them but not necessary. In this case the binning of the final variable(s) and the systematics smoothing/pruning should be indicated.*