

➤ Add a new Button to Mott Screen: **Data Analysis**

This opens a window:

Latest Mott CODA Run: *rcRunNumber*

Analysis Run Number: *anaRunNumber*

Decode Run

Analyze Run

Display Figures

Log Run Analysis

Latest Mott CODA Run: *rcRunNumber*

➤ *rcRunNumber*:

- This is the latest CODA Run Number (we will not use the EPICS Channel ***RunNumber*** because it is set to 0 once CODA Run stops)
- Where to find:
  - I. ssh idaq@opsmdaq0
  - II. ./bin/dfilename

Analysis Run Number: *anaRunNumber*

➤ *anaRunNumber*:

- This field is entered by hand. If no value or 0 is entered, then use *rcRunNumber*

## Decode Run

- How to decode a run
  - `ssh idaq@opsmdaq0`
  - `cd /work/idaq/Mott/Analysis/decoder/`
  - `decode.pl anaRunNumber`
- Please show the xterm that has the decoding process

## Analyze Run

- How to analyze a run
  - `ssh idaq@opsmdaq0`
  - `cd /work/idaq/Mott/Analysis/macro/Full_Analysis/`
  - `./FullAnalysis anaRunNumber`
- Please show the xterm that has the analysis process

## Display Figures

- How to display figures
  - `ssh idaq@opsmdaq0`
  - `cd /work/idaq/Mott/Analysis/macro/Figures`
  - `./eog *anaRunNumber*.gif`

## Log Run Analysis

- Logbook: MOTTLOG
- Author: idaq
- Tag Filters: Autolog
- Title: “Analysis Summary of run number *anaRunNumber*”
  
- Each Entry has:
  1. Text from file **Analysis\_anaRunNumber.txt**:
    - ssh idaq@opsmdaq0
    - cd /work/idaq/Mott/Analysis/macro/TextFiles
    - rm Analysis\_anaRunNumber.txt
    - cd /work/idaq/Mott/Analysis/macro/Full\_Analysis/
    - ./FullAnalysis *anaRunNumber* > ../TextFiles/Analysis\_anaRunNumber.txt
  
  2. Figures:
    - ssh idaq@opsmdaq0
    - cd /work/idaq/Mott/Analysis/macro/Figures
    - Attach all *\*anaRunNumber\**.gif figures