

# NMR Analysis

see [UVA-NMR initial setting-up Information](#) page for PDP installation and setting-up information

## Noise-Level Measurement

Information on the measurement of noise level to be done at NM4 and UVA in June 2022.

Standard configuration:

- NMR cable length =  $18 * \lambda / 2$  = "Long"
- Use of crystal = No
- N of sweeps/measurement = 20
- AC power source = Clean outlet
- Measurement length = 100 measurements/dataset (about 20 minutes)

Special settings for comparison:

- NMR cable length =  $4 * \lambda / 2$  = "Short"
- Use of crystal = Yes
- N of sweeps/measurement = 500
- AC power source = Normal outlet

We adopt only one of these settings per dataset. Thus we acquire five datasets, using the standard configuration and the four special configurations.

## Misc

Status of the nmr comparison analysis so far.

[NMR Analysis \(nmr\\_analysis.pdf\)](#)

## References

[McClain\\_Connor\\_FH00003.pdf](#)  
[LineShape.pdf](#)  
[1-s2.0-S0168900220309013-main.pdf](#)  
[Neural\\_Net.pdf](#)  
<https://inspirehep.net/literature/445049>