

# Intra-section Time Calibration with Extended LED runs

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Data Analysis Briefing  
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# Status

## Root script

- Completely automatized
- The extended calibration run is divided to sub-runs that are analysed individually
- Last time used for 2018 data (not sure how it will work with new data processing)

## Inputs

- Table of cables time delays
- Table of motherboards time delays
- Table of cluster configurations (cableYear, cableID, motherboardYear, motherboardID, LED position, prismaPresent)

## Output TXT - only intra-section

- PMT transit time
- Absolute time delay of every working channel
- Relative time delay for up to 9 upper OMs

## Plans

- Rewrite to BARS program
- created input tables for 2019 and 2020 → cluster installation logs, cable time delays and motherboard delays necessary
- Try to process 2019 or 2020 extended calibration data

File name : ~/Data/BaikalData/2017/cluster-1/0411/g0411

Number of masters : 46872449

Date :

Time :

Number of successfully fitted OMs (PMT delay) : 115

Number of successfully fitted first upper OMs (LED delay) : 101

Number of studied upper OMs : 9

\*\*\*\*\*Results\*\*\*\*\*

0	10685	10648	71.28	0.2601	8.912	464.4	2017	4868	1.108	5.412	10629	3.164	2.284	4878	4.852	4.488	495	11.9	6.749	217	-100	-1	70
1	10946	10766	69.59	0.2172	5.053	464	2017	6361	5.216	5.274	10758	5.448	2.077	6363	10.83	4.231	731	5.599	7.391	235	-100	-1	82
2	10709	10496	70.43	0.2356	3.327	464.6	2017	2851	-5.826	6.553	10393	9.831	2.527	2882	4.103	4.964	413	28.11	24.6	99	-100	-1	61
3	10798	10384	74.23	0.2461	1.552	465.6	2017	1489	4.225	7.164	10359	-1.554	2.525	1492	3.55	6.063	336	7.719	13.6	167	-100	-1	63
4	10890	10874	67.46	0.2839	0.8924	465.1	2017	2694	6.555	5.394	10874	5.689	1.663	2694	12.65	5.168	1116	7.779	6.112	280	-100	-1	127
5	10600	10491	69.01	0.2766	0.8351	465.1	2017	1225	-1.836	10.03	6819	12.3	4.551	1901	9.415	6.17	505	14.14	6.575	162	-100	-1	0
6	10492	10255	72.13	0.2551	1.117	464.9	2017	2270	7.812	6.169	10254	0.9972	2.086	2270	8.934	5.297	648	8.727	6.074	0	-100	-1	92
7	10706	10595	68.56	0.2777	0.5816	465.3	2017	1619	2.676	6.205	10589	9.619	2.121	1621	12.3	5.328	0	-100	-1	209	-100	-1	0
8	10618	10571	73.02	0.2444	0.4928	465.6	2017	0	-100	-1	10567	4.723	2.049	0	-100	-1	600	1.221	7.314	0	-100	-1	0
9	10960	10552	71.8	0.2529	10.55	464.8	2017	0	-100	-1	0	-100	-1	4118	1.446	4.735	0	-100	-1	0	-100	-1	0
10	0	0	-1	-1	-1	464.6	2017	0	-100	-1	0	-100	-1	0	-100	-1	0	-100	-1	0	-100	-1	0
11	10437	10217	67.95	0.259	5.035	463.4	2017	0	-100	-1	0	-100	-1	0	-100	-1	0	-100	-1	0	-100	-1	0
12	10713	10706	68.86	0.2653	2.627	465.3	2017	3270	5.509	5.046	10706	3.753	1.334	3272	9.299	4.606	1034	7.8	5.616	364	8.872	7.955	122

Thank you for your attention.