# AlaVar generated report

File 'C:\CALLISTO-01\FITfiles\TotalLightcurve.DAT' created on 04.11.2024 07:49:36
Column # 1 was processed
Data length N = 69952 points.
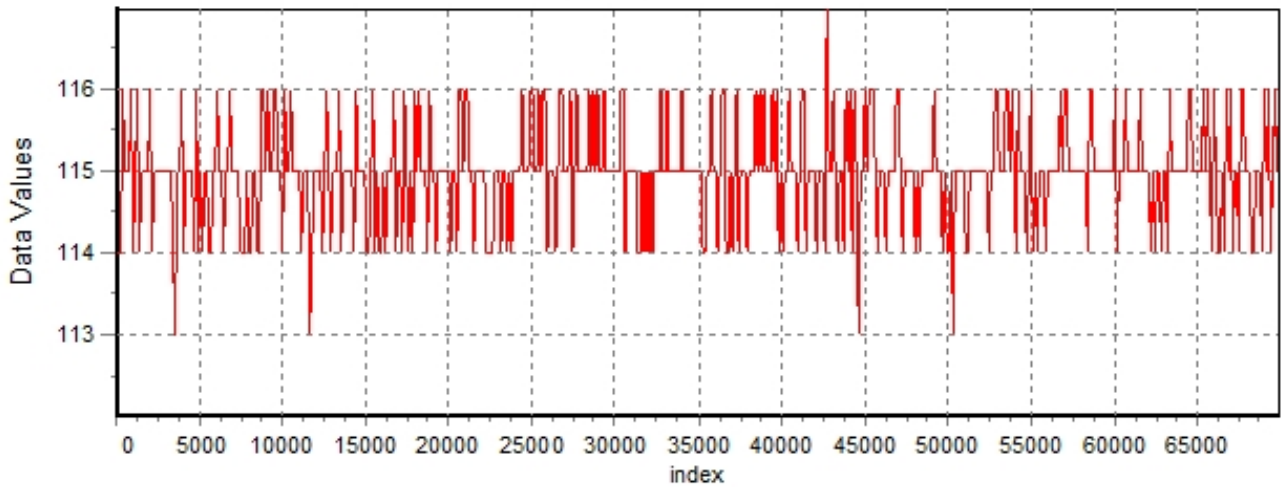    The mean Value of the processed data = 114.916
    The Stanadrd Deviation of the processed data = 2.77665
    The number of removed outliers is 39



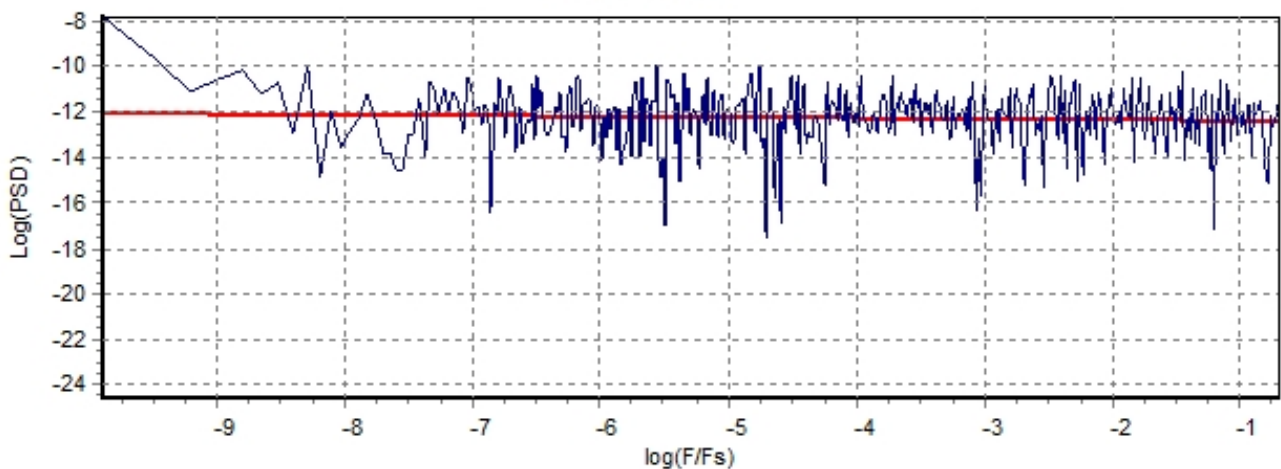**Figure 1 : Processed Data**



**Figure 2 : Data PSD**

The computation of the 3 ALLAN STD DEVs lasted 0.036000 seconds
The error bars were computed for a : White FM
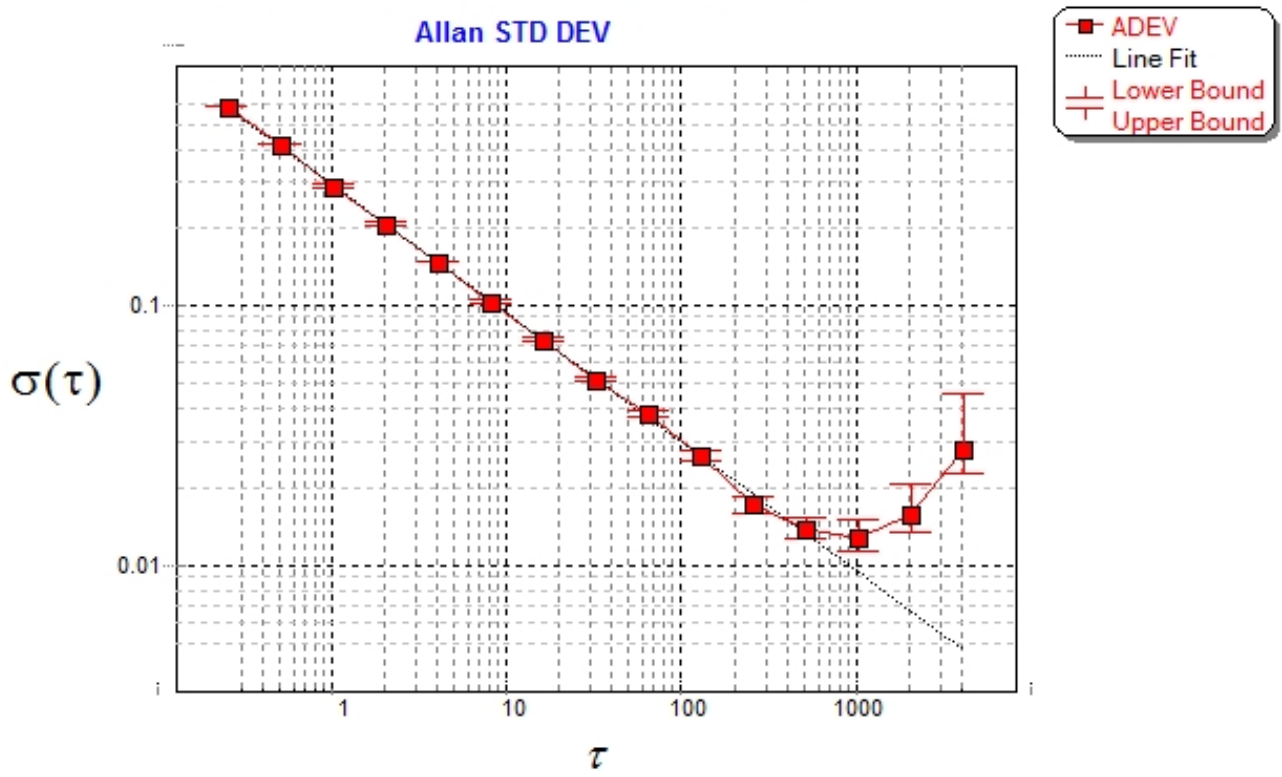The computation of the Error bars lasted 0.001 seconds

ADEV(tau) was fitted to a line :
The Solpe of the line is =-0.496132
The fit result is ADEV(tau=1) = Stability =0.291572

Tau = average Time
ADEV = Overlapping ALLAN STD DEV.
ADEV_Min = ADEV lower bound.
ADEV_Max = ADEV upper bound.
MDEV = Modified ALLAN STD DEV.
TDEV = Time ALLAN STD DEV.
HDEV = Overlapping HADAMARD STD DEV.

| Tau | ADEV | ADEV_Min | ADEV_Max | MDEV | TDEV | HDEV |
|------|---------|----------|----------|-----------|----------|----------|
| 0.25 | 0.58355 | 0.58165 | 0.58548 | 0.58355 | 0.084229 | 0.58291 |
| 0.5 | 0.41446 | 0.413 | 0.41594 | 0.32747 | 0.094533 | 0.41539 |
| 1 | 0.2902 | 0.2889 | 0.29153 | 0.21128 | 0.12198 | 0.29008 |
| 2 | 0.20615 | 0.20488 | 0.20745 | 0.14699 | 0.16972 | 0.20634 |
| 4 | 0.14563 | 0.14437 | 0.14692 | 0.10344 | 0.23889 | 0.14538 |
| 8 | 0.10376 | 0.1025 | 0.10507 | 0.073647 | 0.34016 | 0.10365 |
| 16 | 0.073059 | 0.071814 | 0.074371 | 0.051381 | 0.47464 | 0.073135 |
| 32 | 0.051575 | 0.050345 | 0.0529 | 0.036681 | 0.67768 | 0.051134 |
| 64 | 0.037846 | 0.036587 | 0.039245 | 0.026913 | 0.99446 | 0.037931 |
| 128 | 0.026291 | 0.025076 | 0.0277 | 0.018507 | 1.3677 | 0.026724 |
| 256 | 0.017218 | 0.016121 | 0.018575 | 0.012199 | 1.803 | 0.016614 |
| 512 | 0.013614 | 0.012426 | 0.015224 | 0.0099243 | 2.9337 | 0.012784 |
| 1024 | 0.012739 | 0.011228 | 0.015087 | 0.010837 | 6.4068 | 0.010685 |
| 2048 | 0.015654 | 0.013147 | 0.0205 | 0.014862 | 17.574 | 0.007461 |
| 4096 | 0.027966 | 0.021938 | 0.04545 | 0.02509 | 59.333 | 0.007796 |

**Figure 3 : Allan Standard Deviation**