Dominant frequency components in spill from **conventional** third order resonant extraction.29.10.96

|  |  |  |
| --- | --- | --- |
| **frequency [Hz]** | **magnitude [ms-1]** | **relative magnitude** |
| 0 (DC) | 1061 | 1 |
| 50 | 48 | 4.5 ⋅ 10-2 |
| 100 | 59 | 5.6 ⋅ 10-2 |
| 150 | 335 | 3.2 ⋅ 10-1 |
| 200 | 176 | 1.7 ⋅10-1 |
| 250 | 104 | 9.8 ⋅ 10-2 |
| 300 | 160 | 1.5 ⋅ 10-1 |
| 350 | 102 | 9.6 ⋅10-2 |
| 450 | 76 | 7.2 ⋅10-2 |

average flux: 0 = <> = 1061/ms  
  
standard deviation:  = 1513/ms

relative standard deviation: rel = /0 = 143 %

duty factor: F = <>2/<2> = 33 %  Modulation > 100 %

(100 % Modulation ∫ F = 2/3)

Data file COSY Juelich: Conventional Extraction1996.TXT

Dominant frequency components in spill from **noise driven** third order resonant extraction.29.10.96

|  |  |  |
| --- | --- | --- |
| **frequency [Hz]** | **magnitude [ms-1]** | **relative magnitude** |
| 0 (DC) | 3170 | 1 |
| 6 | 115 | 4 ⋅ 10-2 |
| 30 | 88 | 3 ⋅ 10-2 |
| 50 | 68 | 2 ⋅ 10-2 |
| 149 | 100 | 3 ⋅ 10-2 |
| 150 | 104 | 3.3 ⋅10-2 |
| 250 | 72 | 2.3 ⋅ 10-2 |
| 350 | 51 | 2 ⋅ 10-2 |
| 450 | 34 | 1 ⋅ 10-2 |

Due to the noise construction there are integer multiple of 6 Hz with magnitude less   
than 2 ⋅ 10-2 visible.

average flux: 0 = <> = 3170/ms  
  
standard deviation:  = 1569/ms

relative standard deviation: rel = /0 = 49%

duty factor: F = <>2/<2> = 80%

Data file COSY-Juelich: Stochastic Extraction1996.TXT