Generierung des Eingangssingals für Barrier Bucket RF Systeme and der GSI



Jonas Christ, Artem Moskalew, Maximilian Nolte Jens Harzheim, M.Sc.

Projektseminar Beschleunigertechnik



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 - Gerätekommunikation
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Problemstellung

Zielsetzung

 $\mathsf{MLBS}.\mathsf{py}$

FFT.py

 $\mathsf{MLBS}.\mathsf{py}$

FFT.py

MLBS.py

getH.py

FFT.py

MLBS.py

getH.py

computeUin.py

FFT.py

MLBS.py

getH.py

computeUin.py

runme_compute.py

Erreichtes: das VISA-Handbuch

Uout_ideal = generate_BBsignal (fq_rep, fq_bb, vpp)

```
Uout_ideal = generate_BBsignal ( fq_rep, fq_bb, vpp )
H = measure_H ( )
```

```
Uout_ideal = generate_BBsignal ( fq_rep , fq_bb , vpp )
H = measure_H ( )
Uquest_ideal = compute_Uquest ( Uout_ideal , H )
```

```
Uout_ideal = generate_BBsignal ( fq_rep, fq_bb, vpp )
H = measure_H ( )
Uquest_ideal = compute_Uquest ( Uout_ideal, H )
Uin = Uquest_ideal
```

```
Uout_ideal = generate_BBsignal ( fq_rep, fq_bb, vpp )
H = measure_H ( )
Uquest_ideal = compute_Uquest ( Uout_ideal, H )
Uin = Uquest_ideal
Uout_measured = measure_Uout ( Uin )
```

```
Uout_ideal = generate_BBsignal ( fq_rep, fq_bb, vpp )
H = measure_H ( )
Uquest_ideal = compute_Uquest ( Uout_ideal, H )
Uin = Uquest_ideal
Uout_measured = measure_Uout ( Uin )
Uquest_measured = compute_Uquest ( Uout_measured, H )
```

```
Uout_ideal = generate_BBsignal ( fq_rep, fq_bb, vpp )
H = measure_H ( )
Uquest_ideal = compute_Uquest ( Uout_ideal, H )
Uin = Uquest_ideal
Uout_measured = measure_Uout ( Uin )
Uquest_measured = compute_Uquest ( Uout_measured, H )
a = compute_a ( Uin, Uquest_measured, N )
```

```
Uout_ideal = generate_BBsignal ( fq_rep, fq_bb, vpp )
H = measure_H ( )
Uquest_ideal = compute_Uquest ( Uout_ideal, H )
Uin = Uquest_ideal
Uout_measured = measure_Uout ( Uin )
Uquest_measured = compute_Uquest ( Uout_measured, H )
a = compute_a ( Uin, Uquest_measured, N )
K = compute_K ( a )
```

```
Uout_ideal = generate_BBsignal ( fq_rep, fq_bb, vpp )

H = measure_H ( )

Uquest_ideal = compute_Uquest ( Uout_ideal, H )

Uin = Uquest_ideal

Uout_measured = measure_Uout ( Uin )

Uquest_measured = compute_Uquest ( Uout_measured, H )

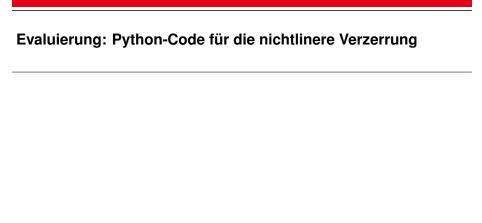
a = compute_a ( Uin, Uquest_measured, N )

K = compute_K ( a )

Uin = compute Uin ( Uquest_ideal, K )
```

```
Uout_ideal = generate_BBsignal ( fq_rep, fq_bb, vpp )
H = measure_H ( )
Uquest_ideal = compute_Uquest ( Uout_ideal, H )
Uin = Uquest_ideal
Uout_measured = measure_Uout ( Uin )
Uquest_measured = compute_Uquest ( Uout_measured, H )
a = compute_a ( Uin, Uquest_measured, N )
K = compute_K ( a )
Uin = compute_Uin ( Uquest_ideal, K )
Uout_measured = measure_Uout ( Uin )
```

Evaluierung: Gerätekommunikation



Ausblick