

Estia

optimised for

- $A < 5 \times 10 \text{ mm}^2$
- polarised measurements
- specular reflectivity
- short counting times
- low background
- high q_z (horizontal scattering plane)



very high performance for

- $A < 10 \times 50 \text{ mm}^2$
- off-specular reflectivity
- samples with intrinsic background (focusing to detector)

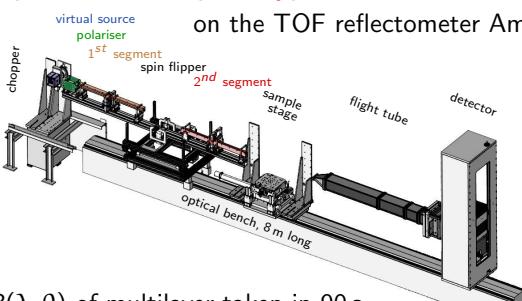
options / extensions

- in-situ combination with other techniques
- spin-echo techniques
- vertical scattering plane
- $q_z \leq 2.5 \text{ \AA}^{-1}$ for diffraction

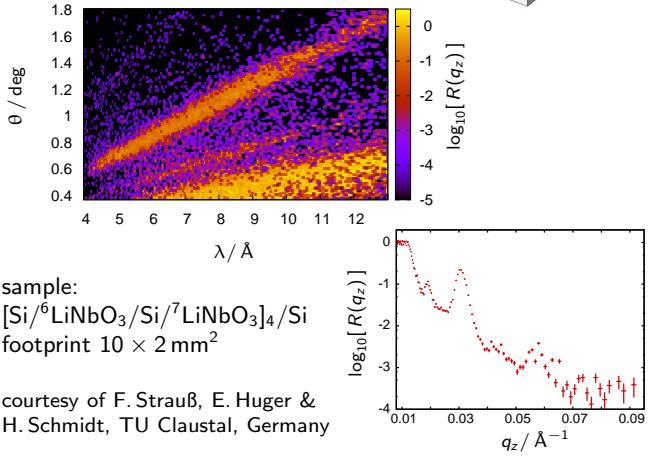


experience with prototype

on the TOF reflectometer Amor at PSI



$R(\lambda, \theta)$ of multilayer taken in 90 s



source flux	ESS / SINQ	$\times 150$
guide transmission	Selene/ (Amor + Selene)	$\times 4$
footprint	(sample size 1 cm^2)	$\times 10$
in total		$\times 6000$

$\Rightarrow q_z$ -range 0.005 \AA^{-1} to 0.05 \AA^{-1} in one pulse (0.07 s)

focusing reflectometer for small samples based on the Selene guide concept

