Gain correction factor for module **MOD** and run $\mathbf{RUN^{JUN}}$

Mean value over reference September runs

$$\uparrow \qquad\qquad\qquad\qquad\qquad\qquad\qquad \nearrow$$

$$\mathbf{f^{JUN}_{MOD}}(\mathbf{RUN^{JUN}}) = \frac{\left\langle \frac{\mathbf{CSI\_LASER_{MOD}}(\mathbf{RUN^{SEP}})}{\mathbf{CSI\_LASER_{BEST}}(\mathbf{RUN^{SEP}})} \right\rangle}{\frac{\mathbf{CSI\_LASER_{MOD}}(\mathbf{RUN^{JUN}})}{\mathbf{CSI\_LASER_{BEST}}(\mathbf{RUN^{JUN}})}} \times \underbrace{\frac{\mathbf{GAIN^{SEP}_{BEST}}}{\mathbf{GAIN^{JUN}_{BEST}}}}_{\substack{\| \\ \mathbf{F_{BEST}}}}$$

where

$$\begin{aligned} \mathbf{F_{BEST}} &= \mathbf{F^{HT}} \\ &= \mathbf{F^{COSMICS}} \\ &= \mathbf{F^{COULOMB\ RINGS}} \\ &= \mathbf{F^{HOMOTHETIE}} \\ &= \mathbf{F^{PUNCH\ THROUGH}} \\ &= \mathbf{F}^{\alpha\ \mathbf{SOURCE}} \\ &= \ldots \end{aligned}$$