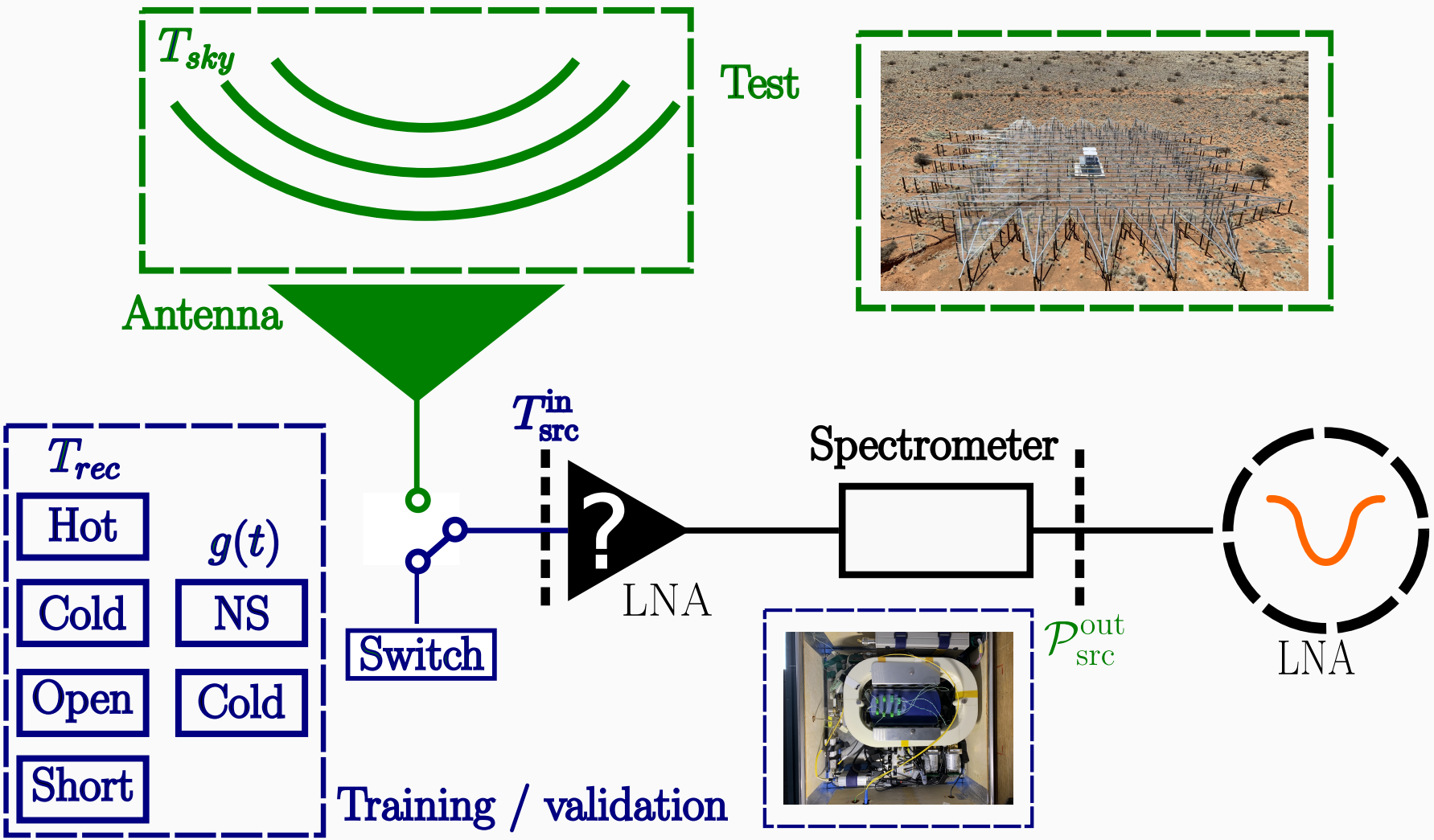
Machine learning for radiometer calibration in global 21cm cosmology



Co-authors: Harry Bevins, Will Handley, Eloy de Lera Acedo, Jiacong Zhu, Kaan Artuc, Daniel Molnar

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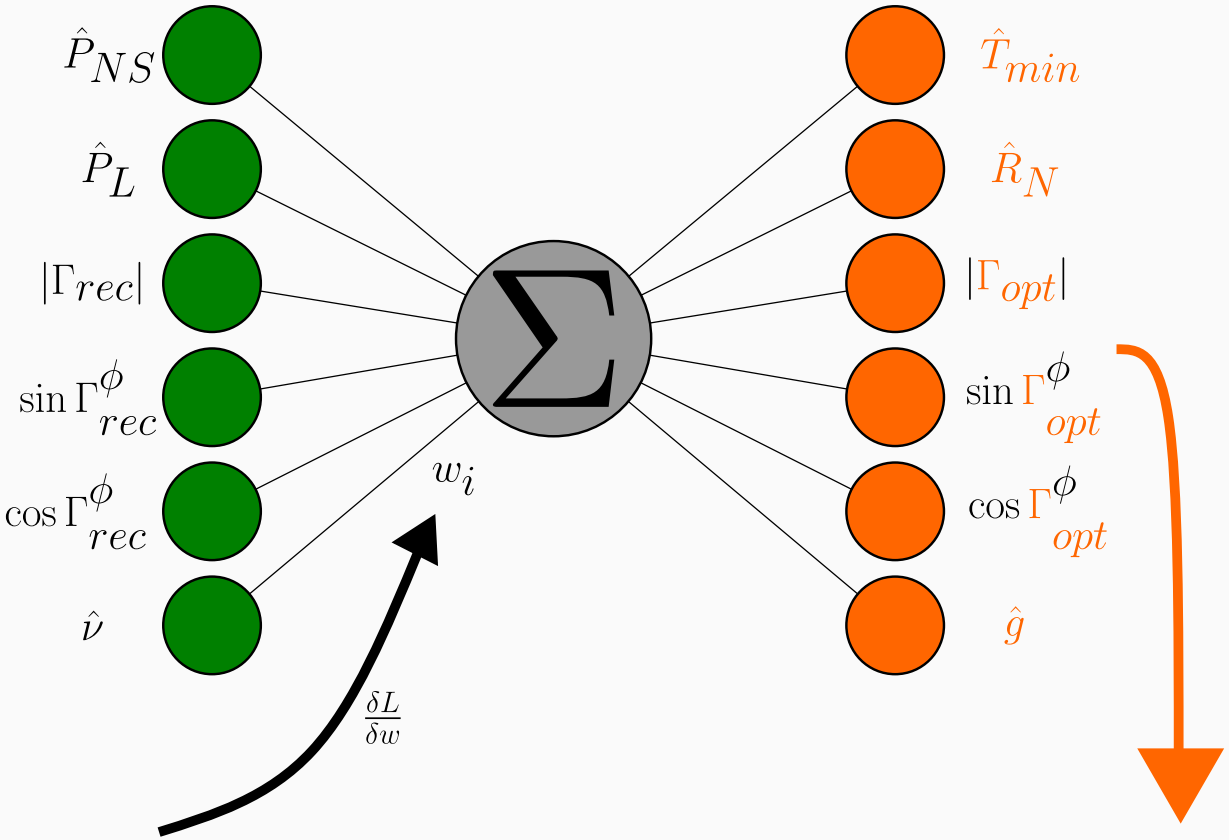
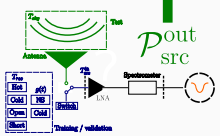


$$\mathcal{L} = \frac{1}{n}\sum_i^n \frac{1}{\mathcal{P}^{out}_{\rm src}2}\left[\mathcal{P}^{out}_{\rm src} - \mathcal{P}^{out}_{\rm src}\right]^2 \leftarrow \mathcal{P}^{out}_{src} = gM\left(T^{in}_{src} + T_{min} + T_0\frac{4R_N}{Z_0}\frac{|\Gamma_{src}-\Gamma_{opt}|^2}{(1-|\Gamma_{src}|^2)|1+\Gamma_{opt}|^2}\right)$$



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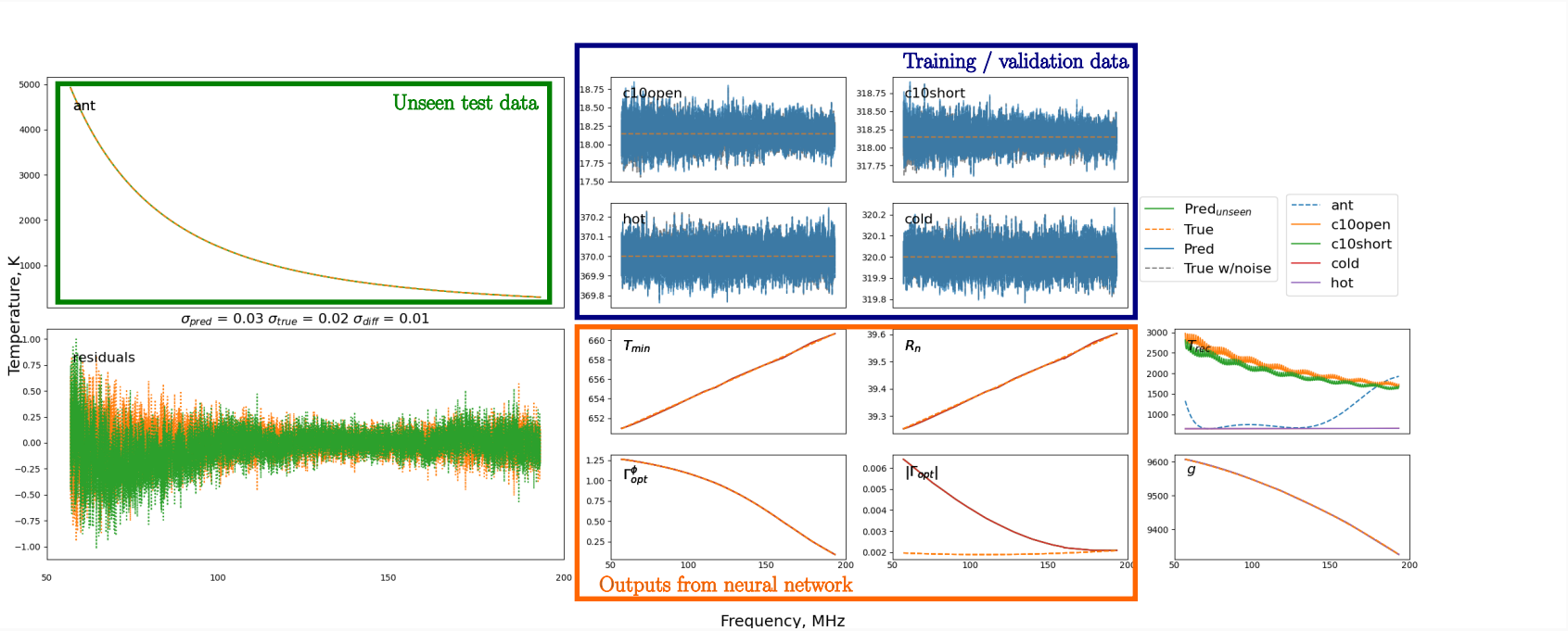

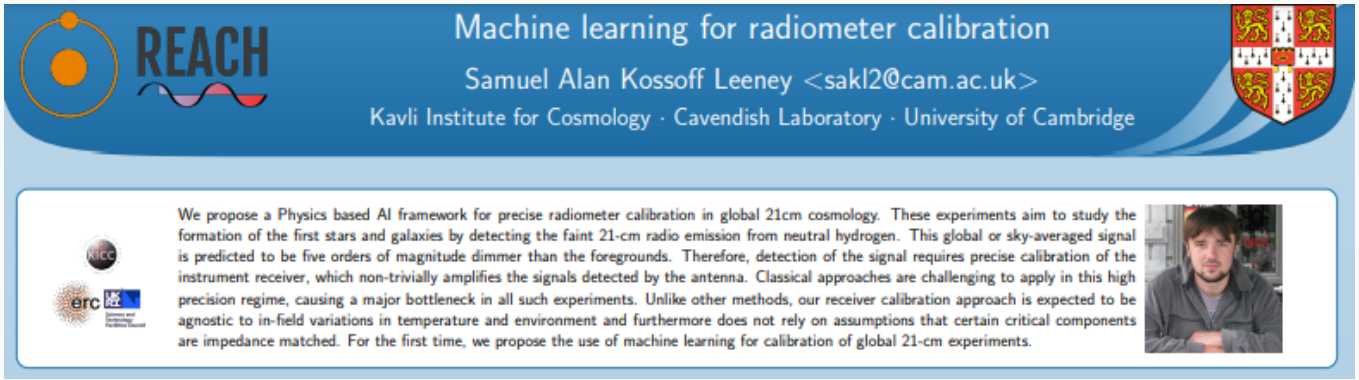

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