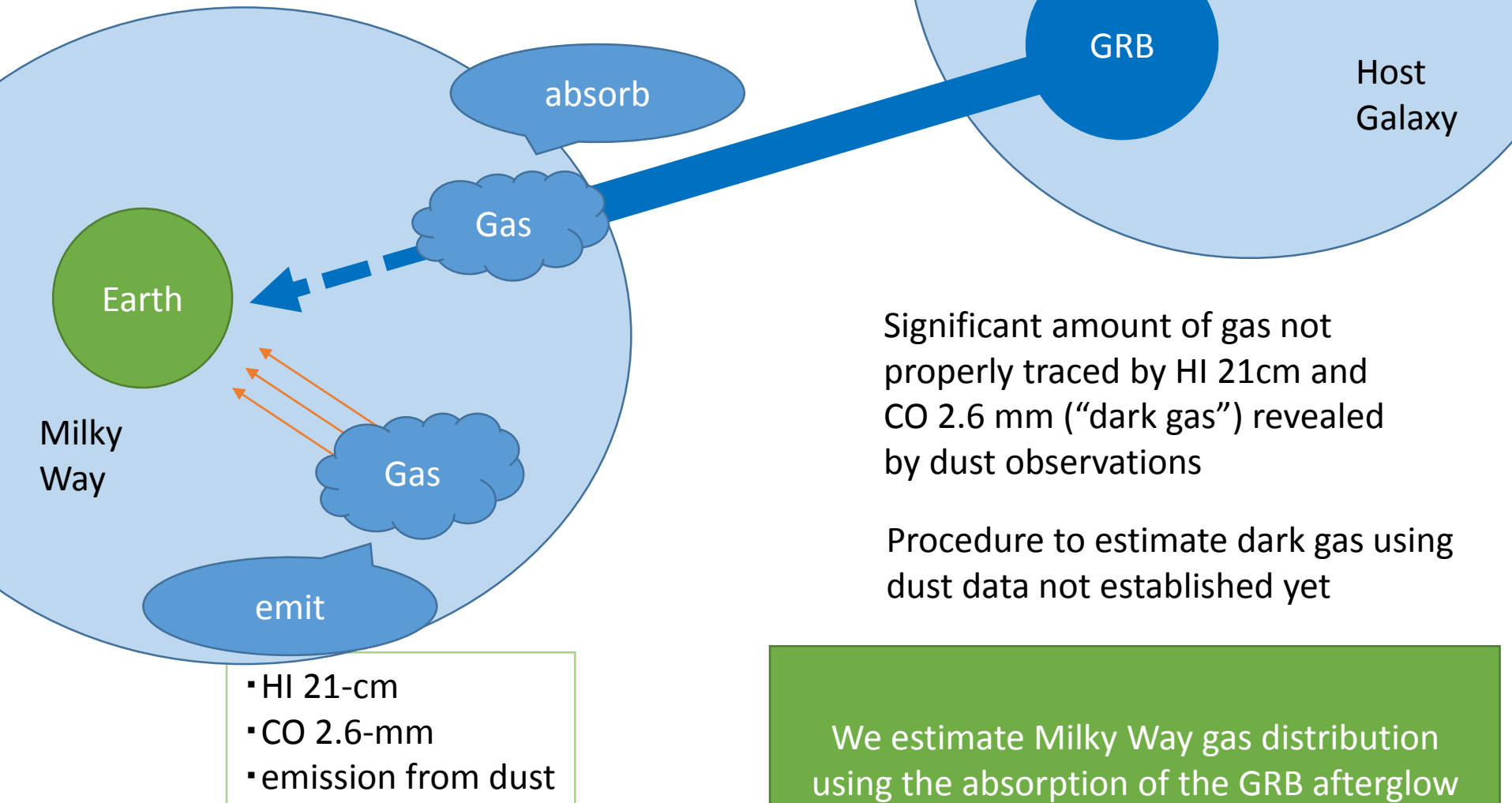


Study of the Interstellar Gas Distribution of Milky Way Using Gamma-Ray Burst Afterglow

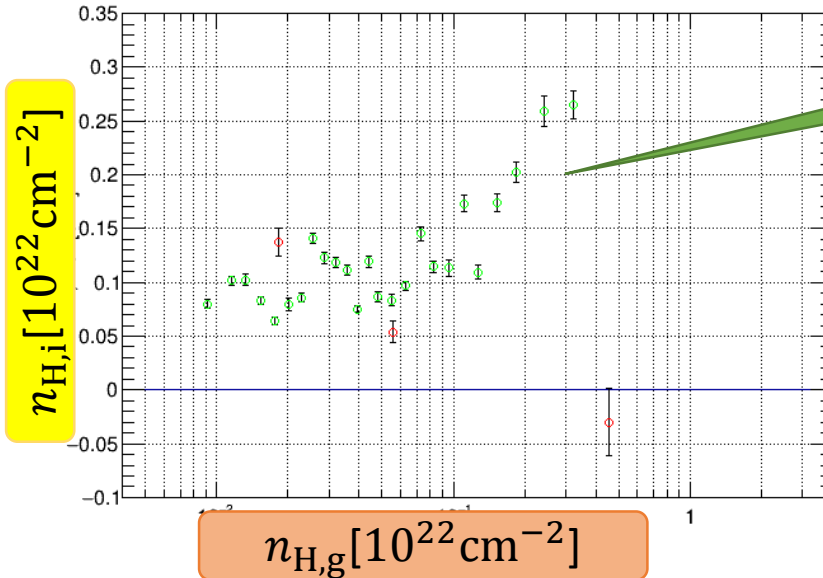
Accurately measuring the interstellar medium (ISM) gas distribution is important !



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Example

Radiance (no Correction)



artificial correlation

A model of $n_{H,g} \propto$ Radiance underestimates $n_{H,g}$, resulting in the artificial correlation



Need correction

$$\otimes n_{H,\text{tot}} = n_{H,i}(\text{host galaxy}) + n_{H,g}(\text{MW})$$

We report details of the analysis and obtained results in our POSTER(P19)