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Joint release rate estimation and measurement-by-measurement model correction for atmospheric radionuclide emission in nuclear accidents: An application to wind tunnel experiments

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Highlights

1. Joint measurement-by-measurement model correction and release rate estimation.
2. Validated by wind tunnel simulations of a heterogeneous and densely-built site.
3. The correction significantly improves both release estimate and model prediction.
4. More robust to multiple uncertainties over a wide range than Tikhonov's method.
5. Extendible with robust statistics and generic for various models and scenarios.

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