

## Interactive comment on "ICON-ART 2.1 – A flexible tracer framework and its application for composition studies in numerical weather forecasting and climate simulations" by Jennifer Schröter et al.

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The comment was uploaded in the form of a supplement: https://www.geosci-model-dev-discuss.net/gmd-2017-286/gmd-2017-286-RC2supplement.pdf

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This manuscript describes a novel framework for the implementation of neactive tracers into the ICON model. The framework takes advantage of the commonly used KPP potware and implements it into the ICON model in awy that allows for the run-time implementation of neuropic schemical mechanism. The presented work significantly enhances the current ICONART system. The implementation of additional state variables and associated echanical reactions into the ICON model requires a high level of programming expertise and possian obstacle to its usage that should not be underestimated. The presented model development ta in eigen solution that will allow a vade usage Sades to description of the technical reactions into the ICON model requires a high level of programming expertise and possian obstacle to its usage that should not be underestimated. The presented model development ta a legal solution that will allow a vade usage Sades the description of the technical reactions. They calculations with a simple conce chemistry to long term (matter ones with He inhough the manuscript is quite long lengicyed reading it and can support publication in GMD.