## Coupling flow, transport and reactions using $\mathbf{D}\mathbf{u}\mathbf{M}\mathbf{u}^{x}$ and $\mathbf{R}\mathbf{e}\mathbf{a}\mathbf{k}\mathbf{t}\mathbf{o}\mathbf{r}\mathbf{o}$

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DuMu<sup>x</sup> [1], a simulator for flow and transport processes in porous media, is coupled to Reaktoro [2], a computational framework for modeling chemically reactive processes. We describe the coupling on a conceptual as well as on a technical level. Several decoupling approaches to solve the resulting coupled problem are investigated by means of representative examples.

## References

- [1] DuMu<sup>x</sup> website https://dumux.org/.
- [2] Reaktoro website https://reaktoro.org/.

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