Title

Supervisors: **Name of main PI**, Names of other PIs

Technische Universität Berlin

Motivation

State here the background and motivation for the project.

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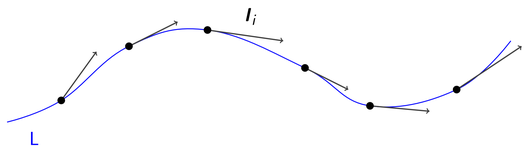
Line Element Simulation



Die Dynamik eines Linienelements wird beschrieben durch

$$\frac{d\boldsymbol{l}}{dt} = \nabla \boldsymbol{u}\, \boldsymbol{l} = \boldsymbol{S}\boldsymbol{l} + \Omega \boldsymbol{l}$$

Die Streckungsraten ζ, ξ sind definiert als

$$\zeta \equiv \frac{d\ln(l)}{dt} = S_{ij}\widehat{l_i}\widehat{l_j}, \qquad \xi \equiv \frac{d\ln(A)}{dt} = -S_{ij}\widehat{n}_i\widehat{n}_j,\ \boldsymbol{A} = \boldsymbol{l_1} \times \boldsymbol{l_2}$$

Die zeitliche Entwicklung der Linienelemente:

$$\boldsymbol{l}(t) = \boldsymbol{B}(t)\boldsymbol{l}(0),$$

$$\frac{d}{dt}\boldsymbol{B} = \boldsymbol{V}\boldsymbol{B}(t).$$

Results

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References

[1] G. Kutyniok, V. Mehrmann, and P. Petersen. Regularization and numerical solution of the inverse scattering problem using shearlet frames. *J. Inverse Ill-Posed Probl.*, 25:287–309, 2017.

[2] ...