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cases	authors	• BRUVERIS, MARTINS • MICHOR, PETER W. • MUMFORD, DAVID	authors	• Martins Bruveris • Peter W. Michor • David Mumford	DUPLICATES	25
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	abstract	We study properties of Sobolev-type metrics on the space of immersed plane curves. We show that the geodesic equation for Sobolev-type metrics with constant coefficients of order2 and higher is globally well-posed for smooth initial data as well as for initial data in certain Sobolev spaces. Thus the space of closed plane curves equipped with such a metric is geodesically complete. We find lower bounds for the geodesic distance in terms of curvature and its derivative	id	id8021220886847111620		
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