

## THE DOUBLE EXPONENTIAL MAP ON SPACES OF CONSTANT CURVATURE

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In the article, we derive an explicit formula for the double exponential map on spaces of constant curvature. In addition, we consider some applications of the resulting formula to computing the principal symbol of the product of two pseudodifferential operators on a manifold with connection.

*Key words and phrases:* Riemannian manifold, space of constant curvature, symmetric space, pseudodifferential operator on a manifold.

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