Applications of optimal transport methods in the least gradient problem

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Abstract. We study the consequences of the equivalence between the least gradient problem and a boundary-to-boundary optimal transport problem in two dimensions. We extend the relationship between the two problems to their respective dual problems, as well as prove several regularity and stability results for the least gradient problem using optimal transport techniques.

Mathematics Subject Classification (2020): 35J20 (primary); 35J25, 35J75, 49Q22 (secondary).