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**Jeehyeon Seo\*** ([seo6@illinois.edu](mailto:seo6@illinois.edu)), 1409 W.Green Street, Urbana, IL 61801. *Bi-Lipschitz embeddability of the Grushin plane into Euclidean space.*

Many sub-Riemmanian manifolds like the Heisenberg group do not admit bi-Lipschitz embedding into any Euclidean space. In contrast, the Grushin plane admits a bi-Lipschitz embedding into some Euclidean space. This is done by extending a bi-Lipschitz embedding of the singular line, using a Whitney decomposition of its complement. (Received August 10, 2010)