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Laura Ghezzi* (lghezzi@citytech.cuny.edu), Department of Mathematics, New York City College of Technology, 300 Jay Street, N711, Brooklyn, NY 11201. *Blow-ups in monomialization problems.*

In recent work with Olga Kashcheyeva we proved monomialization of generating sequences of valuations in positive characteristic. The result we obtain is similar to the one we previously proved in characteristic zero, but we need to use different methods. However, the key point in both cases is an explicit description of the blow-ups that we perform. In this talk we discuss such blow-ups and how they are connected to the Euclidean algorithm. (Received July 06, 2007)