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Clayton C. Sherman* (csherman@missouristate.edu), Dept. of Mathematics, Missouri State University, Springfield, MO 65897. *K1 of an Exact Category by Mirror Image Sequences.*

We establish a presentation for K_1 of any small exact category \mathcal{P} , based on the notion of “mirror image sequence” originally introduced by Grayson in 1978; as part of the proof, we show that every element of $K_1(\mathcal{P})$ arises from a mirror image sequence. This provides an alternative to Nenashev’s presentation in terms of “double short exact sequences.” (Received September 24, 2012)