

1135-14-3126 **Malgorzata A Marciniak*** (mmarciniak@lagcc.cuny.edu), 4266 Phlox Place, Apt C7,
Flushing, NY 11355, and **Shenglan Yuan**. *Hessian Dynamics on the Hesse pencil*.

Our ultimate goal is to answer the question of whether the group of rational points on an elliptic curve C is related to the group of rational points on its Hessian $H(C)$. Prior to attacking this problem, we considered the Hessian dynamics on the pencil of cubic curves (called the Hesse pencil). Here we describe and analyze the Hessian dynamics in terms of projective coordinates on the space of parameters on the Hesse pencil. (Received September 26, 2017)