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Tzitzeica and Walras Laws in Geometric Economics

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Abstract - We study the single-time geometric dynamics induced by the excess demand vector field, with emphasis on the Walras Law and the Tzitzeica Law. An example for the excess demand vector flow for three consumers and three goods is given. We analyze the two-time geometric dynamics induced by two excess demand vector fields and introduce the notion of potentials associated to the excess demand Pfaff form.

Key words and phrases : economic geometric dynamics, excess demand vector field, Walras Law, Tzitzeica Law

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