



DYNAMICAL SYSTEMS SEMINAR

The Mathematics of Inequality

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Abstract. In this talk we will present some fundamental concepts of the mathematics of inequality, including: functional distribution of income, personal distribution of income, wages and wealth, the Lorenz curve, the Gini index, and the relationship between the various distributions and their Gini indices. Besides this, we will present a simple dynamical stochastic economic model in order to try to answer the following question: why wealth inequality is always much greater than income inequality?

References

- [1] M. Patrão (2018). Income and Wealth Distributions in a Neoclassical Growth Model with $\sigma \geq 1$. in *John A. Bishop, Juan Gabriel Rodríguez (ed.) Inequality, Taxation and Intergenerational Transmission (Research on Economic Inequality)*, vol. 26, 35 - 62.