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Enxin Wu* (ewu22@uwo.ca), Department of Mathematics, the University of Western Ontario, London, Ontario N6A 5B7, Canada. *A brief survey of A-infinity algebras and related triangulated structures*. Preliminary report.

I will talk about the definition of an A-infinity algebra, its basic properties, its derived category, and its relationship with a special class of triangulated categories. This is a survey talk based on Bernhard Keller's summary on A-infinity algebras, and some of the recent developments of the field. (Received August 24, 2009)