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Eddy A Kwessi* (ekwess@trinity.edu), One Trinity Place, San Antonio, TX 78212. *The Lebesgue Integral : Motivations, advantages and Limitations*. Preliminary report.

In this presentation, we will give a brief introduction on the motivation behind the Lebesgue integral. We will also present some of its advantages over the Riemann integral. We will finish by presenting some limitations of the Lebesgue Integral and introduce existing alternatives such as the Kurzweil-Henstock Integral and Denjoy Integral. (Received September 05, 2011)