On Riemann-type Characterization of the Wide Denjoy Integral

Piotr and Tatiana Sworowski

Several Riemann-type definitions of integrals related to a local system Δ will be presented. In case Δ is induced by the natural topology, all of them describe the wide Denjoy integral. In the general case, they describe different Δ -continuous integrals of Lusin-type.