

## A FUNCTIONAL EQUATION THAT LEADS TO SEMISTABILITY

**Nadjib Bouzar**

*Abstract:* Some functional equations related to the notion of semistability of probability distributions on  $\mathbf{Z}_+$  and  $\mathbf{R}_+$  are studied. The solution sets of these equations are fully described.

**2000 AMS Mathematics Subject Classification:** Primary: 60E07; Secondary: 62E10.

**Keywords and phrases:** Infinite divisibility, Laplace–Stieltjes transforms, probability generating functions, the Deny–Lau–Rao theorem.

THE FULL TEXT IS AVAILABLE [HERE](#)