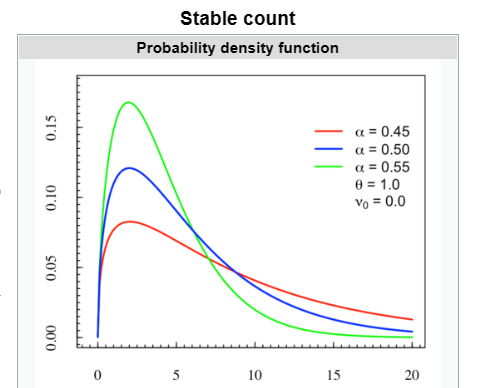
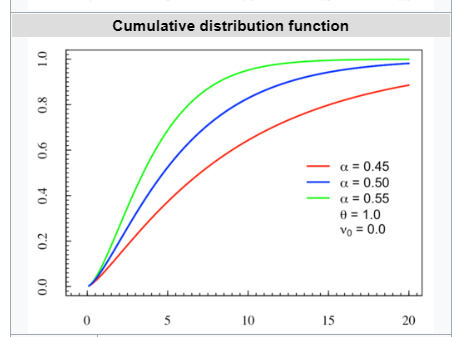
Stable count distribution

Def

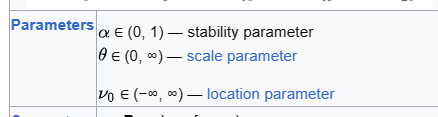
PDF



CDF



Parameter



Support



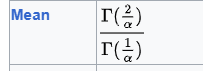
PDF



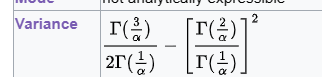
CDF



Expected Value



Variance



Median



Mode



Skewness

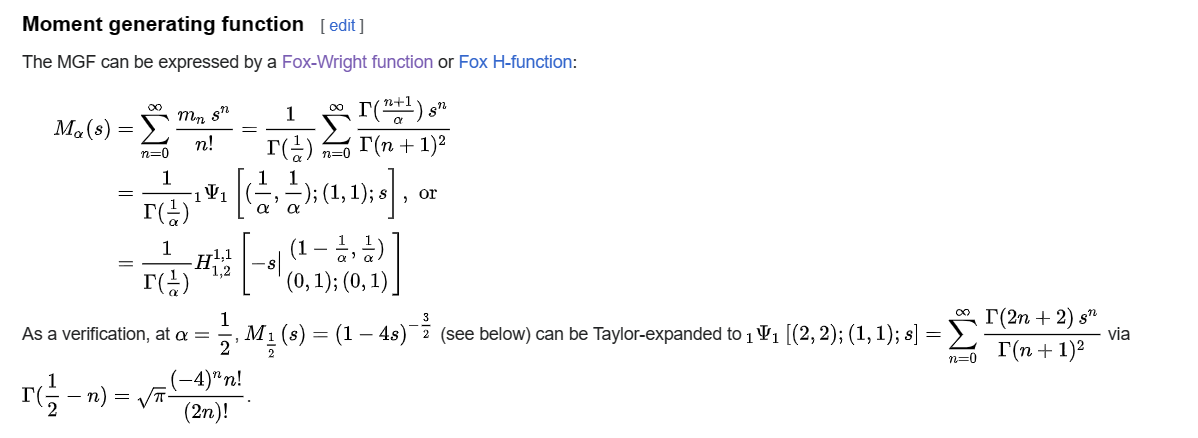


Here, TBD is the abbreviation of To Be Determined.

Ex. Kurtosis

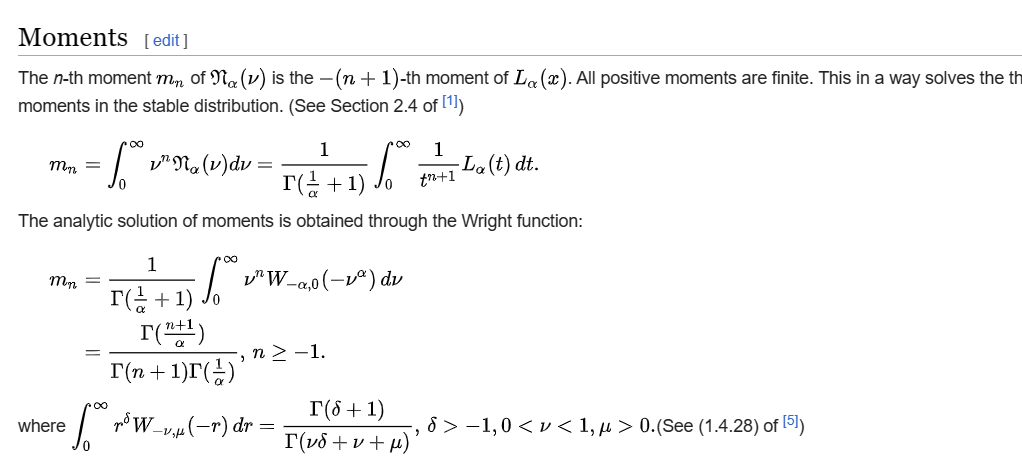


MGF



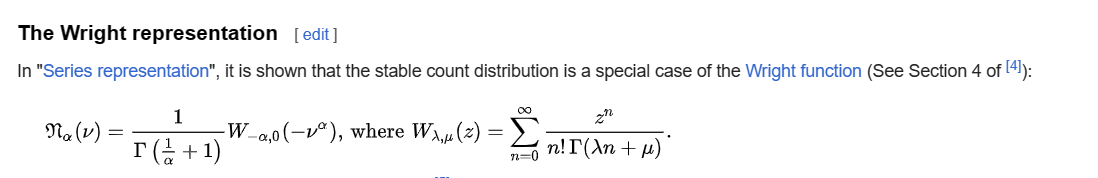


Moment

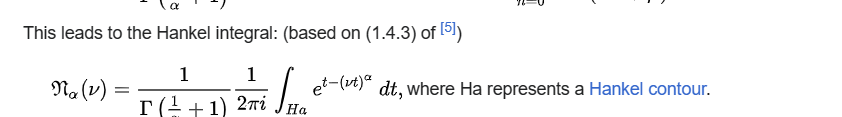


Special Case

It can be proven that stable count distribution is a special of Wright function.

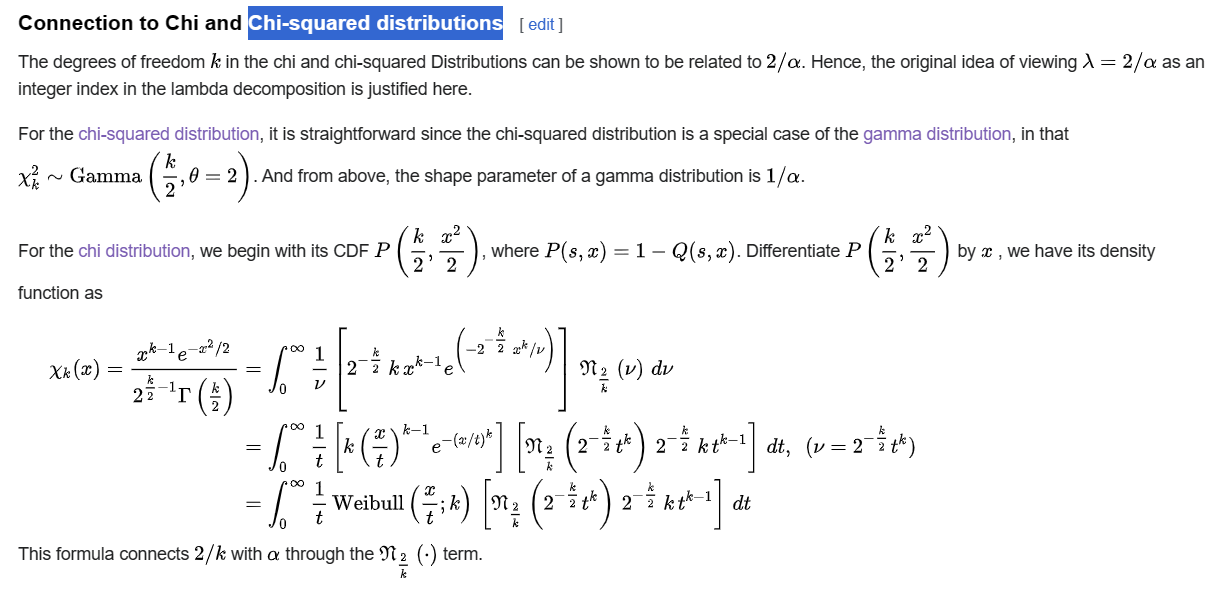


And in Hankel integral, it is as follows.

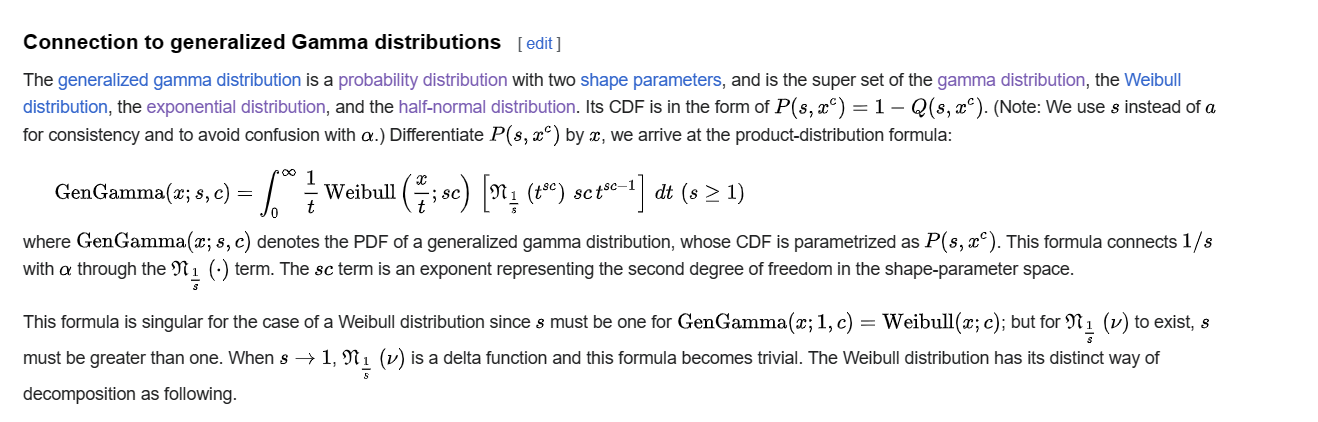


Relationship

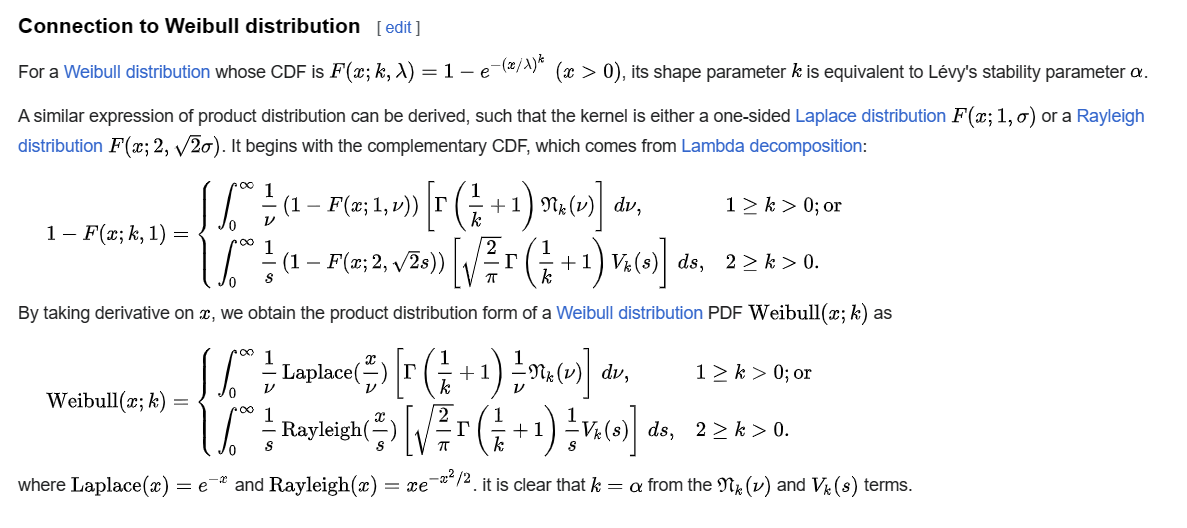
Chi-squared distribution

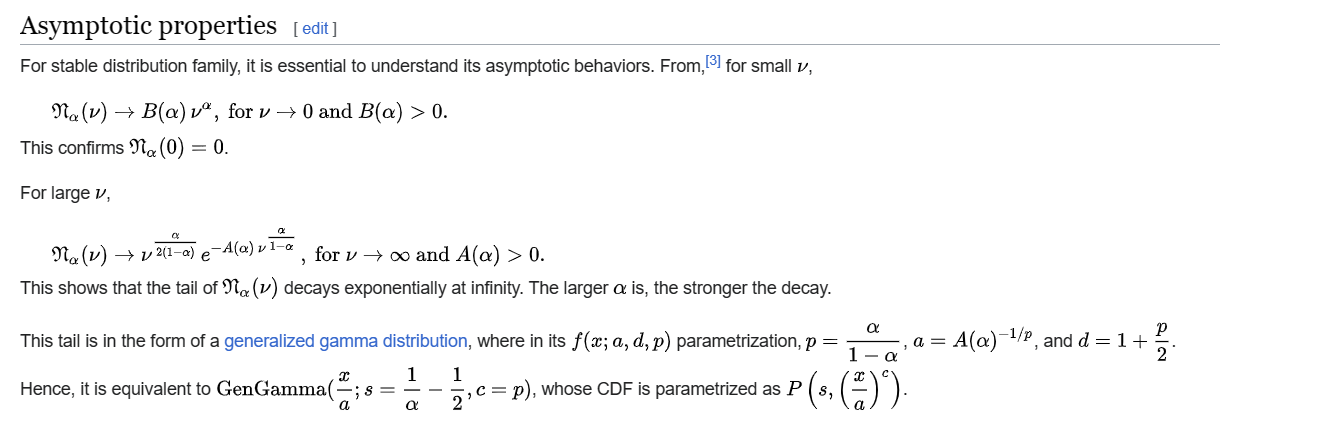


Generalized gamma distribution



Weibull distribution





Ref

[Stable count distribution - Wikipedia](https://en.wikipedia.org/wiki/Stable_count_distribution)