

Bernstein Functions: Theory and Applications

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by

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Further entries to the tables of Bernstein functions. Date: May 25, 2010.

No.	Function $f(\lambda)$	Comment	Lévy (L), Stieltjes (S), Thorin (T) representation measures
66a	$\sqrt{\lambda} \tanh(b\sqrt{\lambda}), \quad b > 0$	Limiting case of 68 as $a \rightarrow 0$; 66a becomes with $b = \sqrt{2}$ $2\sqrt{2} \sqrt{\frac{\lambda \sinh^2 \sqrt{2\lambda}}{2 \sinh 2\sqrt{2\lambda}}}$ = entry 66	$\mathbf{L}: \sum_{n=1}^{\infty} \frac{n^2 \pi^2}{2b^3} \sin\left(\frac{n\pi}{2}\right) e^{-n^2 \pi^2 t / (4b^2)}$ $\mathbf{S}: \frac{2}{b} \sum_{n=1}^{\infty} \sin\left(\frac{n\pi}{2}\right) \delta_{n^2 \pi^2 / (4b^2)}(dt)$ $\mathbf{T}: f \notin \mathcal{TB}\mathcal{F}$
97a	$\frac{\log \Gamma(\lambda + 1)}{\lambda \log \lambda}$	[30]	$\mathbf{L}: ?$ $\mathbf{S}: ?$ $\mathbf{T}: ?$

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