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Mark W. Coffey* (mcoffey@mines.edu). *Mellin transforms with only critical zeros.*

Functions possessing zeros only on the critical line $\text{Re } s = 1/2$ have been of considerable interest in analytic number theory. We describe representative results of an investigation of Mellin transforms having polynomial factors with zeros only on the critical line, or else on the real line. The results surpass those of [1,2,3]. Joint work with Matthew Lettington (Cardiff University).

References

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- [2] M. W. Coffey, Special functions and the Mellin transforms of Laguerre and Hermite functions, *Analysis* **21**, 1001 (2007).
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