



YMC 2006



Young Mathematicians Conference 2006

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TRANSFORMING BESSEL FUNCTIONS

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Abstract of Report Talk: We will develop an operational method with which to derive the Laplace Transform of some complex functions. We will then use the method to derive the Laplace Transform of the Bessel Functions of the First Kind. We will then discuss uses of the procedure—combined with Parseval-type relations—to learn more about the Bessel Functions, as well to find complex integrals with less mathematical background than the traditional methods of solving them would require. [RM27123803]

[Joint work with Osman Yurekli and John Maceli (Mentors), as well as Scott Herman]

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