Subject: Complex arguments in Bessel functions
Posted by Ben Carter on Mon, 01 Nov 2004 11:45:41 GMT
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I am attempting to solve an equation in IDL which involves Modified Bessel Functions (using a simple root finding algorithm(newtons method)). The roots to the equation however are complex and IDL's 'beselK(argument, order)' function ignores imaginary numbers when entered so for example gives: beselK(1,0) = beselK(1+i,0) and beselk(i,0) gives an error since K(x,0) -> inf. as x ->inf.
Q: Does anyone know if there is an easy way round this....or, in fact, any way round it at all?
Thanks,
Ben Carter