4/19/94
PM

Tom,

In our memo I mentioned a hypothesis of:

- Moving part of a function from the partial differential equation to the partial differential itself.

In fact this is not new. Equation 637, Pg 517, Vol. 13 of the Brit. reads:

$$\cdot \; \widehat{\frac{\partial^2 u}{\partial x_j^2}}(x) = -x_j^2 \hat{f}(x)$$

would appear to be adaptable to the notion not only of differentiating a characteristic of one function with respect to a characteristic of another function but also including a partial differential transform. The description of Eq. 637 reads:

- The transform of the second order partial derivative of u with respect to one variable all considered as a function of x is the product of the negative square of the variable times the transform of f, (....).

You may want to discuss this, I think it may be developable.

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