

March 27

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Professor Ragnar Frisch,
Karl Johangt 47,
O s l o

My dear Frisch,

I am preparing various topics for personal discussions with your collaborators and yourself, one of them being ~~the equation of~~ a number of degrees of freedom in decision models. I did not yet quite understand what you said about it in your last stenciled memorandum on the subject, but I venture to suggest as a alternative the following set of definitions:

Knowns		U n k n o w n s		
		Degrees of freedom	To be calculated	
Data	d	.	.	d
Political parameters	p ₀	p ₁	p ₂	p
Economic variables	v ₀	v ₁	v ₂	v
	k	f ₄	u = e	q

- q represents the total number of quantities in your equations;
e represents the number of equations which ^{must} ~~may~~ be equal to the number of unknowns you are able to calculate;
k represents the total number of quantities you suppose known beforehand (by the nature of the problem you set)
f is the number of degrees of freedom i.e. the number of political parameters and economic variables you must choose in order to make the problem determinate for the number of maximum conditions you have to introduce for the same purpose.

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Professor Ragnar Frisch,
Karl Johangt. 47,
Oslo

My dear Frisch,

I am preparing various topics for personal dis

Please, don't answer me by letter. I send you this note as a basis for discussion. We should, I think, carefully scrutinize to what of my terms your definitions correspond and vice versa.

Yours as ever,

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