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Title: A Radon–Nikodym theorem for completely n -positive linear maps on pro- C^* -algebras and its applications

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The order relation on the set of completely n -positive linear maps from a pro- C^* -algebra A to $L(H)$, the C^* -algebra of bounded linear operators on a Hilbert space H , is characterized in terms of the representation associated with each completely n -positive linear map. Also, the pure elements in the set of all completely n -positive linear maps from A to $L(H)$ and the extreme points in the set of completely n -positive linear maps from a unital C^* -algebra A to $L(H)$ are characterized in terms of the representation induced by each completely n -positive linear map.

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