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*Preservers and converters of immanant functions*

A linear map  $T$  defined on  $M_n(F)$  preserves a function  $f$  if  $f(T(X)) = f(X)$  for all  $X \in M_n(F)$ . In this talk I will present some recent results on preservers of an immanant on some subsets of  $M_n(C)$ , where the immanant function associated with an irreducible complex character  $\chi$  is the function  $d_\chi : M_n(C) \rightarrow M_n(C)$  defined by

$$d_\chi(A) = \sum_{\sigma \in S_n} \prod_{i=1}^n a_{i\sigma(i)}.$$