

# A Galois-theoretic approach to Kanev's correspondence

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Let  $G$  be a finite group,  $\rho$  an absolutely irreducible  $\mathbb{C}[G]$ -module and  $w$  a weight of  $\rho$ . To any Galois covering with group  $G$  we associate two correspondences, the Schur and the Kanev correspondence. We work out their relation and compute their invariants. Using this, we give some new examples of Prym-Tyurin varieties. © 2007 Springer-Verlag.