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Vanishing of sections of vector bundles on 0-dimensional schemes

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Abstract: Here we give conditions and examples for the surjectivity or injectivity of the restriction map $H^0(X, F) \rightarrow H^0(Z, F|_Z)$, where X is a projective variety, F is a vector bundle on X and Z is a “general” 0-dimensional subscheme of X , Z union of general “fat points”.

Keywords: zero-dimensional scheme, cohomology, vector bundle, fat point

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