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Title: Completely reducible hypersurfaces in a pencil.

Abstract: We study completely reducible fibers of pencils of hypersurfaces on the complex projective space and associated codimension one foliations of this space. Using methods from theory of foliations we obtain certain upper bounds for the number of these fibers as functions only of the dimension of the space. For instance, on every space of dimension greater than 1 this number is less than 6. Since these fibers can be completely characterized by property of their union we obtain upper bounds for the dimensions of resonance varieties of hyperplane arrangements. We obtain also similar bounds for the dimensions of the characteristic varieties of the arrangement complements.

The new results of the talk are from a joint preprint with Jorge V.Pereira