Around logarithmic forms and vector fields, with a view on their modules of residues

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In this talk we recall Saito's theory about the notions mentioned in the title for an hypersurface. We shall focus more specifically the notion of residue and prove duality statements for the module that they form. Concerning applications we gave the final step of a proof of Saito's conjecture about the characterisation of singularities which are normal crossings in codimension 2. We mention also a characterisation of singularities with Gorenstein singular locus. Depending on time left we shall develop more examples of residue modules, for curves, hyperplane arrangement and/or sketch a generalisation of the theory to singularities in higher codimension.