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Annihilating ideals and spectra for commuting row contractions

We investigate the relationship between an ideal of multipliers and the spectra of operators on Hilbert space annihilated by the ideal. This relationship is well-known and especially transparent in the single variable case, but we focus on the multivariate situation and the associated function theoretic framework of the Drury-Arveson space. Recent advances in the structure of multipliers are leveraged to obtain a description of the spectrum of a commuting row contraction annihilated by a given ideal.