Punctual structures relative to oracles

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The talk is devoted to the study of punctual degree spectra of algebraic structures, i.e., the punctual (primitive recursive) oracles in which a structure has an isomorphic copy, This is similar to the (Turing) degree spectra but with only primitive recursive schemes instead of Turing operators. We will see that there are some distinctions and similarities between Turing and punctual degree spectra. In particular, we will study the upper cones, the complements of lower cones, and their unions as the punctual degree spectra.