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Disequilibrium chemistry in the atmospheres of the three warm giant planets WASP-69 b, WASP-107b and WASP-80b

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Here we report preliminary results of the atmospheric studies we performed on the three warm giant planets, Wasp-69b, Wasp-107b and Wasp-80b. By using the PCA technique, and the cross-correlation method, we succeeded in detecting 7 molecules in these exo-atmospheres. Given the low temperature of the investigated exoplanets, some of these molecules are un-expected by equilibrium theories, we have thus to bring up the disequilibrium chemistry to explain our finding.

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