

Figure 1: examples of noise components, features and patterns isolated by our prototype (NOISEMPIRE v1.0.0) from a real ALMA band 3 image of calibrator J1427-4206 (upper left panel). The same noise structure and patterns are used to simulate a pure noise image (bottom left panel) and an image of the HL-Tau protoplanetary disk (bottom central panel) as observed under similar conditions (bottom right panel)