What the study of language can tell us about neurocognitive architecture in schizophrenia?

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Language dysfunction impacts multiple clinical, cognitive and social aspects of schizophrenia. However, the literature on language processing in schizophrenia has been somewhat disjointed. In this talk I will attempt to bring together some of these findings by discussing language processing in schizophrenia within a hierarchical generative framework (1, 2). I will present evidence from ERPs, fMRI, MEG and the visual world paradigm that specific patterns of semantic, referential and syntactic processing in schizophrenia can be explained by disruptions of top-down connections, but relative sparing of bottom-up connections, to each of these levels of representation (3). I will argue that these data are consistent with the more general theory that a breakdown of generative models is a core feature of schizophrenia (4).