

MHD MODES IN PROMINENCE FIBRILS

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Recent high-resolution observations have pointed out that prominences are made of small threads (also named fibrils) piled up to form the body of the prominence. These fine structures also seem to support their own oscillatory modes, while their effect on the global modes of the prominences are less certain. We explore the different types of ideal MHD modes that the fibrils can support, first analytically by exploring limits in which the wave equations are decoupled, and then by solving computationally the full problem. Finally, we compute the range of periods that can be expected in the observations and review how the global modes might be recovered.