1042-03-84 **Andrey Frolov**, **Iskander Kalimullin** and **Russell Miller*** (Russell.Miller@qc.cuny.edu), Mathematics Department, Queens College – CUNY, 65-30 Kissena Blvd., Flushing, NY. *Spectra of Algebraic Fields.*

The spectrum of a structure is the set of all Turing degrees of presentations of that structure. We investigate the possible spectra of a field F algebraic over its prime field. In general these turn out to be of the form $\{\boldsymbol{d} : H \text{ is c.e. in } \boldsymbol{d}\}$, for a specific subset H of ω which depends on F. Conversely, every set of this form, for any H, is the spectrum of some normal algebraic field. From the theory of enumeration degrees, it follows that every such field must have a jump degree. Another corollary is the known result that there is a normal algebraic field extension of the rationals with no least degree in its spectrum. (Received August 15, 2008)