962-N1-1272 **Colette Laborde*** (Colette.Laborde@imag.fr). *New technologies as a bridge between various areas of mathematics.*

Many university students encounter great difficulties in coordinating all mathematical resources they have and in moving from one setting to another. One of their major difficulties lies in their lack of flexibility, seeing mathematics as isolated theorems and facts without a structure. Dynamic, interactive geometry software offers an environment rich in opportunities for building that structure by interconnecting ideas from various mathematical domains, including algebra and calculus as well as the geometries. This presentation will give examples of reasoning in advanced mathematics fostered within the computer environment Cabri Geometry. (Received October 03, 2000)