1099-92-296 **Mariel Vazquez*** (mariel@sfsu.edu), Mathematics Department, San Francisco State U, 1600 Holloway Ave, San Francisco, CA 94132, and **Javier Arsuaga** and **Brian Cruz**. *Knots in bacteriophages.* Preliminary report.

DNA presents high levels of condensation in all organisms. We are interested in the problem of DNA packing inside bacteriophage capsids. Bacteriophages are viruses that infect bacteria, and DNA extracted from bacteriophage P4 capsids is highly knotted. These knots can shed information on the packing reaction and DNA architecture inside the capsid. I here will overview a few research questions stemming from the DNA packing problem. (Received February 10, 2014)