

1079-32-425

**Marshall A Whittlesey\*** ([mwhittle@csusm.edu](mailto:mwhittle@csusm.edu)), Department of Mathematics, California State University San Marcos, San Marcos, CA 92096. *Construction of analytic graphs of complex dimension two in sets fibered over the ball.* Preliminary report.

Suppose that  $\mathbf{C}$  denotes the complex numbers and  $B_2$  denotes the open unit ball in  $\mathbf{C}^2$ . If  $Y$  is a compact set contained in  $\partial B_2 \times \mathbf{C}^m$ , let  $Y_z$  be the fiber of  $Y$  sitting over the point  $z \in \partial B_2$ . If  $w_0 \in \mathbf{C}^m$ , we discuss circumstances where there exists an analytic  $f : B_2 \rightarrow \mathbf{C}^m$  extending smoothly to the boundary of the ball such that  $f(0) = w_0$  and  $f(z) \in \partial Y_z$  for all  $z \in \partial B_2$ . (Received January 18, 2012)