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density, Tesla (T)  $I =$  Current,

Amps (A)  $l =$  length of wire in the

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“We now plan to investigate high-energy-density physics such as

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particle acceleration, developing compact fusion devices and electron-positron pair creation using the new concept of microtube implosion."

Microtube implosions could produce megatesla magnetic

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 $\times B$  or  $F = qvB \sin \theta$ , where  $q$  is

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the charge,  $B$  is the magnetic field,  $v$  is the velocity, and  $\theta$  is the angle between the directions of the magnetic field and the velocity; thus, using the definition of the cross product, the definition for the magnetic field is



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high school students). Dr. McMullen currently teaches physics at Northwestern State University of Louisiana. He has also published a half-dozen papers on the collider phenomenology of superstring-inspired large extra dimensions.

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Chris McMullen earned his Ph.D. in particle physics from Oklahoma State University (and his M.S. in physics from California State University, Northridge). Dr. McMullen is well-known for: engaging physics students in challenging ideas through

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