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Hidemitsu Wadade* (wadade@se.kanazawa-u.ac.jp), Kakuma-machi, Kanazawa-shi, Ishikawa, 920-119, Kanazawa, Ishikawa 920-119, Japan. *The limiting case of Sobolev embeddings on critical Sobolev-Lorentz-Zygmund spaces.*

In this talk, we consider the limiting case of Sobolev embeddings on the critical Sobolev-Lorentz-Zygmund spaces. Especially, we establish the corresponding Trudinger-Moser inequality and Brezis-Gallouet-Wainger inequality of double logarithmic type. Also we investigate the almost Lipschitz continuity for functions in the higher order Sobolev-Lorentz-Zygmund spaces. (Received February 19, 2015)