Publications and Preprints

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[1] Hideo Kozono, Tokushi Sato, <u>Hidemitsu Wadade</u>, *Upper bound of the best constant of a Trudinger-Moser inequality and its application to a Gagliardo-Nirenberg inequality*, Indiana University Mathematics Journal **55** (2006), 1951-1974.

[2] Hideo Kozono, <u>Hidemitsu Wadade</u>, *Remarks on Gagliardo-Nirenberg type inequality with critical Sobolev space and BMO*, Mathematische Zeitschrift **259** (2008), 935-950.

[3] <u>Hidemitsu Wadade</u>, *Remarks on the Gagliardo-Nirenberg type inequality in the Besov and the Triebel-Lizorkin spaces in the limiting case*, Journal of Fourier Analysis and Applications **15** (2009), 857-870.

[4] Sei Nagayasu, <u>Hidemitsu Wadade</u>, *Characterization of the critical Sobolev space on the optimal singularity at the origin*, Journal of Functional Analysis **258** (2010), 3725-3757.

[5] Chun-Hsiung Hsia, Chang-Shou Lin, <u>Hidemitsu Wadade</u>, *Revisiting an idea of Brézis and Nirenberg*, Journal of Functional Analysis **259** (2010), 1816–1849.

[6] Kei Morii, Tokushi Sato, <u>Hidemitsu Wadade</u>, *Brézis-Gallouët-Wainger type inequality with a double logarithmic term in the Hölder space : its sharp constants and extremal functions*, Nonlinear Analysis : Theory, Methods and Applications **73** (2010), 1747–1766.

[7] Kei Morii, Tokushi Sato, <u>Hidemitsu Wadade</u>, *Brézis-Gallouët-Wainger inequality with a double logarithmic term on a bounded domain and its sharp constants*, to appear in Mathematical Inequalities and Applications.

[8] <u>Hidemitsu Wadade</u>, *Remarks on the critical Besov space and its embedding into weighted Besov-Orlicz spaces*, to appear in Studia Mathematica.

[9] Chang-Shou Lin, <u>Hidemitsu Wadade</u>, *Minimizing problems for the Hardy-Sobolev type inequality with the singularity on the boundary*, Preprint.

[10] Kei Morii, Tokushi Sato, Yoshihiro Sawano, <u>Hidemitsu Wadade</u>, *Sharp constants of Brézis-Gallouët-Wainger type inequalities with a double logarithmic term on bounded domains in Besov and Triebel-Lizorkin spaces*, Preprint.

[11] Sei Nagayasu, <u>Hidemitsu Wadade</u>, *On the optimal singularity of the critical Sobolev space and a related Sobolev type inequality with a logarithmic weight*, Preprint.