

List of errata

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Positions are specified using number (n) of the article in my publication list (see the tab *Publications* on <https://math.ntnu.edu.tw/~menne>) along with its page (p), line (l), and, if applicable, column (c). All occurrences of the old text at each indicated position need to be replaced.

Position	Old text	Replacement
n 1		
p 257, 17	$n = 2$	$n = 2$ and μ is integral
p 257, 110	properties	properties of integral varifolds
n 2		
p 374, 118+21	that	that $f(a) = g(a)$ and
p 375, 113	ap $Af(a)(v)$	ap $Af(a)(a + v)$
p 376, 16	ap $Af(a)(v)$	ap $Af(a)(a + v)$
p 377, 113	for part (1)	for the case $q > 1$ of part (1)
p 377, 114	part (2)	part (2); for the case $q = 1$ of part (1), see [Fed69, 4.5.9 (19)]
p 377, 19	$\mathbb{1}_{Q_Q(\mathbb{R}^m)}$	$\mathbb{1}_{Q_Q(\mathbb{R}^m)}$
p 391, 118	2.4	3.4
p 391, 118–20	2.11	3.11
p 391, 120	2.2	3.2
p 391, 121	2.12	3.12
p 403, 116).) in case $q > 1$ and Malý and Pick [MP02, Theorem A] in case $q = 1$.

n 3		
p 6, 12	$\phi_2(\varrho, \sigma_\varrho)$	$2^{-m} \phi_2(\varrho/4, \sigma_{\varrho/4})$
p 6, 12	$\varrho)$	$\varrho/2)$
p 6, 15	$\phi_2(\varrho, \sigma_\varrho)$	$2^{-m} \phi_2(\varrho/4, \sigma_{\varrho/4})$
p 11, 124	that	that $f(a) = g(a)$ and
p 17, 122	$X \cup Y$	$Y \cup Z$
p 18, 117	T	S
p 20, 13	gz	$g(z)$
p 21, 110	\mathbf{R}^n	U
p 30, 125	\int_Z	$\int_{Z \times \mathbf{G}(n,m)}$
p 43, 113	\mathcal{D}	\mathcal{D}'
n 4		
p 719, 121	that	that $f(a) = g(a)$ and
p 720, 118	\mathbf{R}^n	$\text{Nor}(M, a)$
p 737, 117	\mathcal{L}^n	\mathcal{L}^m
p 724, 14	2.8	2.1
p 728, 113	$v_{a,\varrho}$	$v_{a,1}$
p 729, 122	$ \mathbf{D}^i(u - v_s) _{p;s,120h(s)}$	$ \mathbf{D}^i(u - v_s) _{p;\xi(s),120h(s)}$
n 6		
p 988, 120	$\mathbf{R}^n \sim U$	U
p 1003, 118	$s^{-m-1} \varrho(s)$	$s^{-m-1} \varrho'(s)$
p 1030, 120	as $i \rightarrow \infty$	
p 1032, 111	$h \notin \mathbf{T}(V, \mathbf{R} \times \mathbf{R})$	$h \in \mathbf{T}(V, \mathbf{R} \times \mathbf{R})$
p 1032, 113	$\mathbf{T}(V)$; hence	$\mathbf{T}(V)$, whence we infer that
p 1032, 113	and	and that
p 1032, 123	a vector space	closed with respect to addition
p 1032, 126	$\varrho \circ f \notin \mathbf{W}(V, Y)$	$\varrho \circ f \notin \mathbf{W}(V, \mathbf{R})$
p 1033, 129	$V \mathbf{D}(g_\varepsilon \circ f)(x) =$	
p 1047, 112	f	f_N
p 1070, last line	Θ^{m-1}	Θ^m

p 1072, 124 p 1082, 112 p 1082, last line p 1084, 130	$\mathbf{R}^n \sim U$ of page 8 functions	U use of page 984 function
n 7 p 11, 117 p 12, 13 p 17, 124 p 16, 118 p 17, 124 p 28, 115 p 28, 128	vectorspace Orlicz space seminorm $(\ V\ , m)$ and $(\ V\ , m)$ seminorm seminorm	class subadditive function $(\ V\ , m)$ approximately and, for each normal vectorfield g of M in \mathbf{R}^n of class 1, $(\ V\ , m)$ approximately subadditive function
n 8 p 2, 144 p 3, 120 p 3, 122 p 7, end of 133 p 8 11, 19; p 9, 11, 3, 4; p 10, 126, 29, 36, 41, 42; p 11, 111, 34; p 27, 19, 12, 14, 15, 16, 28, 29; p 28, 15, 15, 34; p 39, 131; p 42, 128, 29, 32; p 43, 115, 17, 21, 29, 38; p 44, 12, 13, 25, 27, 29, 30, 37 p 8, 11 p 8, after 118 p 8, end of 127 p 9 12 p 9 12; p 29, 134, 35; p 46, 15, 6, 7, 18, 19, 23	< 1 satisfies Radon $\mathbf{H}_q^{\text{loc}}(V, Y)$ $\mathbf{T}(V, Y)$ $\mathbf{H}_q^{\text{loc}}(V, Y)$ $\mathbf{H}_q^\diamond(V, Y)$	$< \infty$ satisfy a Radon We also let $\tilde{\mathbf{H}}_q^{\text{loc}}(V, Y) = \mathbf{H}_q^{\text{loc}}(V, Y) \cap \{f : \text{dmn } f = U\}$. $\tilde{\mathbf{H}}_q^{\text{loc}}(V, Y)$ $\mathbf{T}(V, Y) \cap \{f : \text{dmn } f = U\}$ We also let $\tilde{\mathbf{H}}_q(V, Y) = \mathbf{H}_q(V, Y) \cap \{f : \text{dmn } f = U\}$. We also let $\tilde{\mathbf{H}}_q^\diamond(V, Y) = \mathbf{H}_q^\diamond(V, Y) \cap \{f : \text{dmn } f = U\}$. $\tilde{\mathbf{H}}_q(V, Y)$ $\tilde{\mathbf{H}}_q^\diamond(V, Y)$

p 10, 127	by	by, whenever $f \in \widetilde{\mathbf{H}}_q^{\text{loc}}(V, Y)$,
p 11, 15, 11; p 29, 11; p 39, 130	$\mathbf{H}_q(V, Y)$	$\widetilde{\mathbf{H}}_q(V, Y)$
p 13, end of 117		Whenever $1 \leq p \leq \infty$, μ measures X , and Y is a Banach space, we let $\widetilde{\mathbf{L}}_p(\mu, Y) = \mathbf{L}_p(\mu, Y) \cap \{f : \text{dmn } f = X\}$.
p 13, 119	space $\mathbf{L}_p^{\text{loc}}(\mu, Y)$	spaces $\mathbf{L}_p^{\text{loc}}(\mu, Y)$ and $\widetilde{\mathbf{L}}_p^{\text{loc}}(\mu, Y)$
p 13, 120	space $\mathbf{H}_q^{\text{loc}}(V, Y)$ and its	spaces $\mathbf{H}_q^{\text{loc}}(V, Y)$ and $\widetilde{\mathbf{H}}_q^{\text{loc}}(V, Y)$ and their
p 13, 122	space $\mathbf{H}_q(V, Y)$ and its subspace $\mathbf{H}_q^\circ(V, Y)$	spaces $\mathbf{H}_q(V, Y)$ and $\widetilde{\mathbf{H}}_q(V, Y)$ and their subspaces $\mathbf{H}_q^\circ(V, Y)$ and $\widetilde{\mathbf{H}}_q^\circ(V, Y)$
p 15, 12	$\mathbf{L}_q(\mu, Y)$	$\widetilde{\mathbf{L}}_q(\mu, Y)$
p 15, 110	X	X ,
p 15, 111	vectorspace	class
p 15, 113	$\mathbf{L}_p^{\text{loc}}(\mu, Y)$ is	$\widetilde{\mathbf{L}}_p^{\text{loc}}(\mu, Y) \cap \{f : \text{dmn } f = X\}$ and, employing the canonical projection of $\mathbf{L}_p^{\text{loc}}(\mu, Y)$ onto $\widetilde{\mathbf{L}}_p^{\text{loc}}(\mu, Y)$, also $\mathbf{L}_p^{\text{loc}}(\mu, Y)$ are
p 15, 114, 18, 20, 30, 31	$\mathbf{L}_p^{\text{loc}}(\mu, Y)$	$\widetilde{\mathbf{L}}_p^{\text{loc}}(\mu, Y)$
p 15, 115	.	and $\widetilde{\mathbf{L}}_p^{\text{loc}}(\mu) = \widetilde{\mathbf{L}}_p^{\text{loc}}(\mu, \mathbf{R})$.
p 15, 119	$(\mu \lrcorner K(i))_{(p)}$	$(\mu \lrcorner K(i))_{(p)} \widetilde{\mathbf{L}}_p^{\text{loc}}(\mu, Y)$
p 25, last line	vectorspace	class
p 26, end of 14		We also let $\widetilde{\mathbf{H}}_q^{\text{loc}}(V, Y) = \mathbf{H}_q^{\text{loc}}(V, Y) \cap \{f : \text{dmn } f = U\}$ and $\widetilde{\mathbf{H}}_q^{\text{loc}}(V) = \widetilde{\mathbf{H}}_q^{\text{loc}}(V, \mathbf{R})$.
p 27, 18	$\mathbf{H}_q^{\text{loc}}(V, Y)$ is	$\widetilde{\mathbf{H}}_q^{\text{loc}}(V, Y)$ and, employing the canonical projection of $\mathbf{H}_q^{\text{loc}}(V, Y)$ onto $\widetilde{\mathbf{H}}_q^{\text{loc}}(V, Y)$, also $\mathbf{H}_q^{\text{loc}}(V, Y)$ are
p 28, 12	$\mathbf{H}_q(V, \cdot)$	$\mathbf{H}_q(V, \cdot) \{f : \text{dmn } f = U\}$
p 28, end of 14		We also let $\widetilde{\mathbf{H}}_q(V, Y) = \mathbf{H}_q(V, Y) \cap \{f : \text{dmn } f = U\}$ and $\widetilde{\mathbf{H}}_q(V) = \widetilde{\mathbf{H}}_q(V, \mathbf{R})$.
p 28, 118	vector	
p 43, 115, 17, 29	$\mathbf{L}_\alpha^{\text{loc}}(\ V\ , Y)$	$\widetilde{\mathbf{L}}_\alpha^{\text{loc}}(\ V\ , Y)$
p 46, 118	$\mathbf{L}_\alpha(\ V\ , Y)$	$\widetilde{\mathbf{L}}_\alpha(\ V\ , Y)$
p 46, 119	$\mathbf{L}_\infty(\ V\ , Y)$	$\widetilde{\mathbf{L}}_\infty(\ V\ , Y)$

p 46, 120	$\mathbf{L}_{mq/(m-q)}(\ V\ , Y)$	$\tilde{\mathbf{L}}_{mq/(m-q)}(\ V\ , Y)$
p 44, 125, 27; p 46, 122	alternate	alternative
p 47, 15	$\mathbf{L}_r(\mu, \mathbf{R}^n)$	$\tilde{\mathbf{L}}_r(\mu, \mathbf{R}^n)$
p 49, 12, 4, 5	$\mathbf{W}(V, \mathbf{R})$	$\tilde{\mathbf{W}}(V, \mathbf{R})$
p 49, 13	there	there, where $\tilde{\mathbf{W}}(V, \mathbf{R}) = \mathbf{W}(V, \mathbf{R}) \cap \{f : \text{dmn } f = U\}$,
n 9		
p 599, 12	vectorspaces,	vectorspaces, $\dim X > 0$,
p 599, 18	there	either $\dim X = 0$ or there
p 606, 118	$\text{Tan}(B, a)$	$\text{Tan}(B, b)$
p 609, 114	pt D	pt D^i
p 612, 12–3	r^k	$r^{k+\alpha}$
p 612, 114	$\text{Clos } A$	$\text{Clos } B$
n 10		
p 70, 112	of the	of
n 11		
p 1185, 18	convex sets, but is new even for	
p 1185, last line	[18,	[1,
p 1185, last line	[1,	[18,
p 1198, 115	v4	v5
p 1198, 136	Toipei	Taipei
n 12		
p 1149, c 2, 123	called	
p 1150, c 1, 146	real-valued	nonnegative
n 14		
p 341, 11	$\mathbf{v}_{\mathbf{B}(0,1)}^i$	$\mathbf{v}_{\mathbf{B}(0,1)}^i \mathcal{D}(\mathbf{R}^n, \mathbf{R})$
p 343, 122	ϕX_j	$X_j \phi$
p 347, 122	ν_j	$\mathbf{v}_{\mathbf{B}(0,1)}^j \mathcal{D}(\mathbf{R}^n, \mathbf{R})$

References

- [Fed69] Herbert Federer. *Geometric measure theory*. Die Grundlehren der mathematischen Wissenschaften, Band 153. Springer-Verlag New York Inc., New York, 1969. URL: <https://doi.org/10.1007/978-3-642-62010-2>.
- [MP02] Jan Malý and Luboš Pick. An elementary proof of sharp Sobolev embeddings. *Proc. Amer. Math. Soc.*, 130(2):555–563 (electronic), 2002.

The wrong page number (n 6, p 1082, last line) occurs in the online version but not in the print version.

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