

[illegible]

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$$\leq \frac{1}{\sqrt{n}} \left(\sum_{i=1}^n \left| \frac{\partial f_i}{\partial x_j}(x) \right|^2 \right)^{1/2}$$

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$$\leq \frac{1}{\sqrt{\pi}} \int_0^1 \left| \frac{d}{dt} \log \det \Delta_{t,\lambda} \right| dt$$

		15 7	15 8	15 9	16 0	16 1	16 2	16 3	16 4	16 5	16 6	16 7	16 8
f s j k q r v l v l f r t s l v v w j v q - l v	396	n s p o o	0	0	0	0	0	0	0	0	0	0	0
f s j k q r v l v ≠ s d - l v w j s l v	397	n s p o o	+	+	-	-	-	=	=	-	=	-	+
f ≠ s l f s l s o o m j f t v d l p l	398	f q	0	0	0	0	0	0	0	0	0	0	0
f ≠ s f v f v f s j - l v n p q v j - l v	399	n s p o o	0	0	0	0	0	0	0	0	0	0	0
f s v j l f - r l t s f l s j d - j f s l	400	n s p o o	+	+	-	-	=	=	=	=	-	=	+
f s f s l j r v j v q w q - l d v p o o - l	401	v l v d v	0	0	0	0	0	0	0	0	0	0	0
f s f s l j r v j n s r - l n - r l	609	d o o	0	0	0	0	0	0	0	0	0	0	0
f s f s l j r v j s j - l d - r s l	614	j s e	0	0	+	+	+	+	+	+	+	+	-
f s f s l j r o o z t s l s l r l	403	n s p o o	0	0	0	0	0	0	0	0	0	0	0
f s f s l j r o o k q - l n r v l t s l	404	n s p o o	+	+	-	-	-	=	=	-	-	-	+
f s f s l j r s l j - l v l p f - l	405	n s p o o	+	+	-	-	-	0	0	0	-	-	+
f s f s l j r z - f v j - l v w j v q - l	406	n s p o o	0	0	0	0	0	0	0	0	0	0	0
f s f s l j r z - f v j - l t j d v n d s	615	j s e	0	0	0	0	0	0	0	0	0	0	0
f s f s l j r j s d - r - l r v e v r l	408	n s p o o	+	+	-	-	0	=	=	-	-	-	+
f s f s l j r j l j - l f j o o - l	409	d o o	0	0	0	0	0	0	0	0	0	0	0
f s f - n s - n s s l n m j r l	410	q d	0	0	0	0	0	0	0	0	0	0	0
f s f t f s f s l r l f s t v r s l q d s	411	d o o	-	-	+	+	+	0	0	0	0	0	0
f - o o r q r v l f s q j - l f s f s l r l	412	n s p o o	+	+	-	-	-	=	=	-	=	-	+
f r n - f s r l s r d - l q z j s l	413	d o o	0	0	0	0	0	0	0	0	0	0	0
f j r v j f s t f s f j q w t v	414	f q	0	0	0	+	+	0	+	+	+	+	0
s l n s j s f s f s l r l q l s l	415	n s p o o	+	+	-	-	-	=	=	-	-	-	+
s l n s j s z ≠ s r s l s s r s l	417	d o o	0	0	0	0	0	0	0	0	0	0	0
s d v s s j v s l v j - l v f s t v z r - l v	418	q d	0	0	0	0	0	0	0	0	0	0	0
r s j s r s l - l v j f s s l	419	f q	-	-	+	+	+	+	+	+	+	+	-
s f v j s r v q r v l d o - l v q v q - l v	420	n s p o o	+	+	-	0	0	=	=	-	-	-	=
s f s r s s f l t d - l v	421	f q	0	0	0	0	0	0	0	0	0	0	0
s f s r n s j - l l v q s r s l	628	j s e	0	0	0	0	0	0	0	0	0	0	0
s f s r f s r t s l f s f s l r l	422	n s p o o	0	0	0	0	0	0	0	0	0	0	0
s f s r f s f s l r l n j = s r l	423	n s p o o	+	+	-	-	-	=	=	-	-	-	0
s f s r f s f s l r l d v p j s d - r - l	424	n s p o o	+	+	-	0	0	-	-	-	-	-	+
s f s r z - f v j - l p f s l	425	n s p o o	+	+	-	-	-	=	=	=	=	-	+
s f s r d s k r - l s l v j - l	426	f q	0	0	0	0	0	0	0	0	0	0	0
s f s r s q r v s j - l v f v q r v r l v	427	d o o	0	0	0	0	0	0	0	0	0	0	0
s f - v j f j q w t v - l v t f s f - l	428	f q	0	0	+	+	+	0	0	0	0	0	0
≠ s l d - l s q s r s j - l l f - r l	429	n s p o o	+	+	-	0	0	0	0	0	-	0	+
e v t v k f s f s l r l n s - n s s l	430	d o o	0	0	0	0	0	0	0	0	0	0	0
e q j s l n s n s - n s s l v	431	n s p o o	+	+	-	0	-	=	-	-	-	-	+
s l v z r - n s - n s s l l t s l	432	n s p o o	+	+	-	-	-	=	-	-	-	-	+

$$\leq \text{[diagram 1]} \cdot \text{[diagram 2]} : \quad \text{[diagram 3]} \cdot \text{[diagram 4]} = \text{[diagram 5]}$$

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$$\leq \frac{1}{\sqrt{\pi}} \int_0^1 \left| \frac{f(x)}{x} - \frac{f(y)}{y} \right| dx + \frac{1}{\sqrt{\pi}} \int_0^1 \left| \frac{f(x)}{x} - \frac{f(y)}{y} \right| dy$$

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$$\leq \frac{1}{\epsilon} \left(\sum_{j=1}^n \|x_j - x^*\|^2 + \sum_{j=1}^n \|y_j - y^*\|^2 \right) + \frac{\epsilon}{2}$$