

In the proof of Proposition 1.3, in the section “**From**  $n = 2$  **to**  $n$  **generic**”, the matrix  $M$  should be defined as  $D^s u / |D^s u|$ . Otherwise the conclusion  $\mu^s(E_{12})$  would not be valid. With the choice above, the conclusion is instead valid, because, by Radon-Nykodim:

$$D^s u = M |D^s u|.$$

Thus the measure  $\mu^s$  defined later is given by  $A |D^s u|$  (where  $A$  is the  $2 \times 2$  minor given by the first two columns of  $M$ ) and the set  $E_{12}$  is given by  $\{x : \det A(x) \neq 0\}$ . Since  $|D^s u|(E_{12}) > 0$  and  $|A(x)| > 0$  for every  $x \in E_{12}$ , we then conclude

$$\mu^s(E_{12}) = \int_{E_{12}} |A| d|D^s u|.$$

Thanks to Stephan Heule for pointing out the mistake.