

**Zeitschrift:** L'Enseignement Mathématique  
**Herausgeber:** Commission Internationale de l'Enseignement Mathématique  
**Band:** 49 (2003)  
**Heft:** 3-4: L'ENSEIGNEMENT MATHÉMATIQUE

**Artikel:** THE BASIC GERBE OVER A COMPACT SIMPLE LIE GROUP  
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**Bibliographie**  
**DOI:** <https://doi.org/10.5169/seals-66691>

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in each  $V'_i$  with  $i \in I$ . In particular  $\bigcup_i V'_i = M$ . Finally  $\overline{V'_i} \subset \bigcup_{I \ni i} \overline{U}_I \subset V_i$ . This completes the proof of Lemma 4.4. Note that if the  $V_i$  were invariant under an action of a compact group  $G$ , the  $U_I$  could be taken  $G$ -invariant also.

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(Reçu le 17 septembre 2002)

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