Ehresmann doubles and Drinfel'd doubles for Lie algebroids and Lie bialgebroids

Kirill C. H. Mackenzie

This is a list of notation for the above paper. The editorial policy of the Journal prevented page numbers being included in the published paper.

The notation of the paper is generally that of [35]. The list provided here gives the less familiar notations and others which are not present in [35].

a, b, ...	anchors of Lie algebroids A, B, ...
$\mathscr{D}(E)$	Lie algebroid of derivations on the vector bundle E, p. 212
ρ, σ	representations of Lie algebroids
$A \ltimes P$, $P \rtimes A$	action Lie algebroids for left/right actions of A on manifold P
$f^!E$	inverse image of vector bundle E across smooth map f
$(D; A, B; M)$	double vector bundle with side bundles A and B, p. 205
$D \,\overset{*}{\top}\, A$	ordinary vector bundle dual, with respect to the structure with base A, p. 206
Z_A, Z_B	isomorphisms corresponding to duality between duals, p. 207
$\xi^{\sqcap}$	section of dual induced by linear section, p. 209
R	canonical antisymplectomorphism $T^*A^* \to T^*A$ for A a vector bundle, pp. 196, 208
J_M	canonical involution $T^2M \to T^2M$
Θ_M	Tulczyjew diffeomorphism $TT^*M \to T^*TM$, p. 216
Δ_A, Δ_B	anchors in a double Lie algebroid, pp. 211, 215
$(S; H, V; M)$	double Lie groupoid with side groupoids $H \rightrightarrows M$ and $V \rightrightarrows M$, pp. 198, 230
$\boxplus$, $\boxminus$	compositions in a double groupoid, p. 199
α_2	double source map $S \to H \times_M V$ of a double groupoid, p. 198
A_2S, A^2S	double Lie algebroid of a double Lie groupoid, p. 199
Λ_H, Λ_V	canonical diffeomorphisms $A^*(A^*_H S) \to A(A^*_V S)$, $A^*(A^*_V S) \to A(A^*_H S)$, p. 234
ϑ_G	canonical diffeomorphism $TA^*G \to A^*TG$ for $G \rightrightarrows M$ a Lie groupoid, p. 237

Correction: On p. 205, Definition 3.1 should be 2.1.