

Figure 2: Collapsing of nodes  $u$  and  $v$  by **ROEE**:  
 (a) Initial tree-like derivation / **DLDS**;  
 (b) Compression Rule **ROEE**;  
 (c) Matching of **ROEE**;  
 (d) Resulting **DLDS** after collapse.

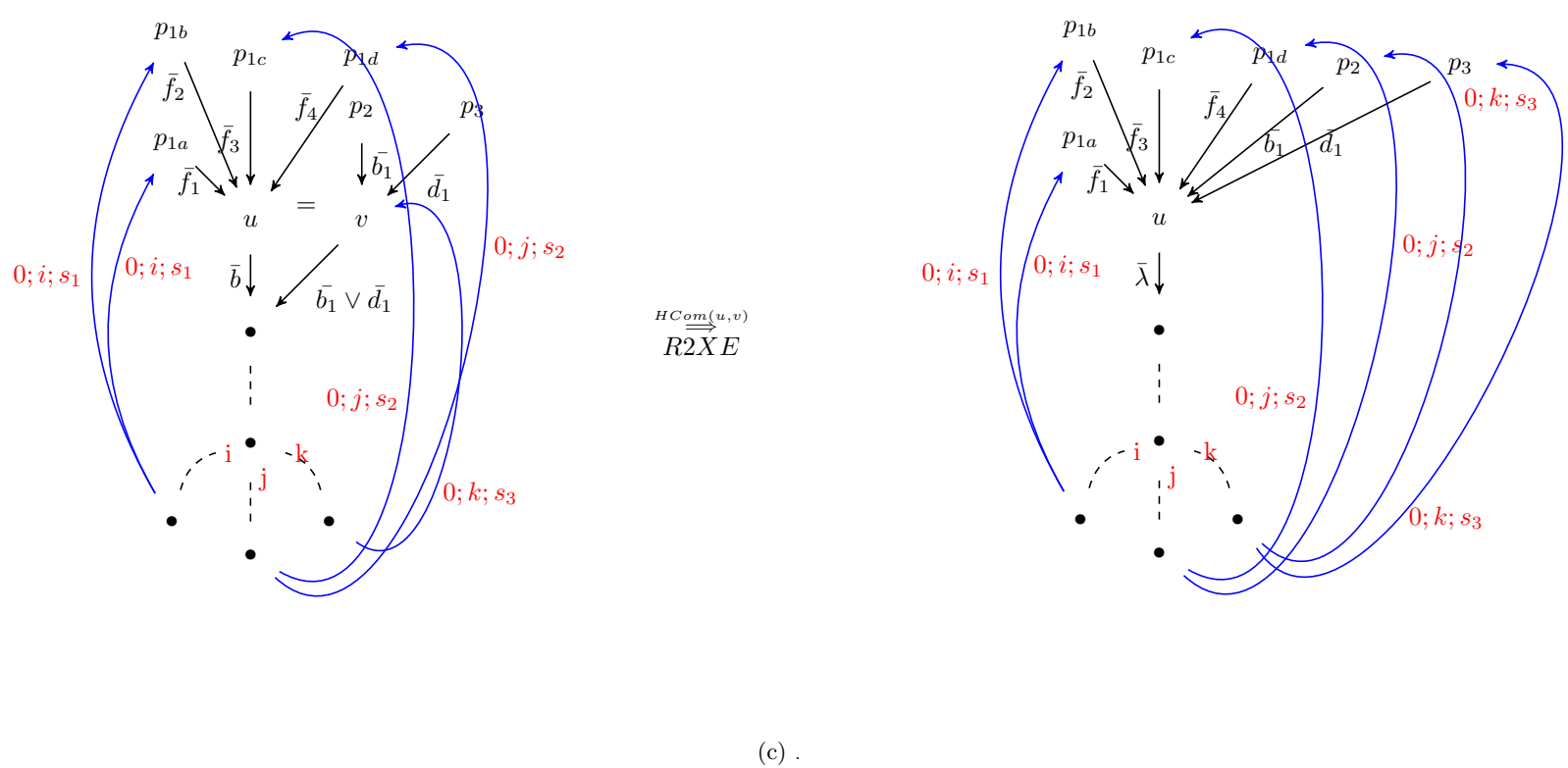
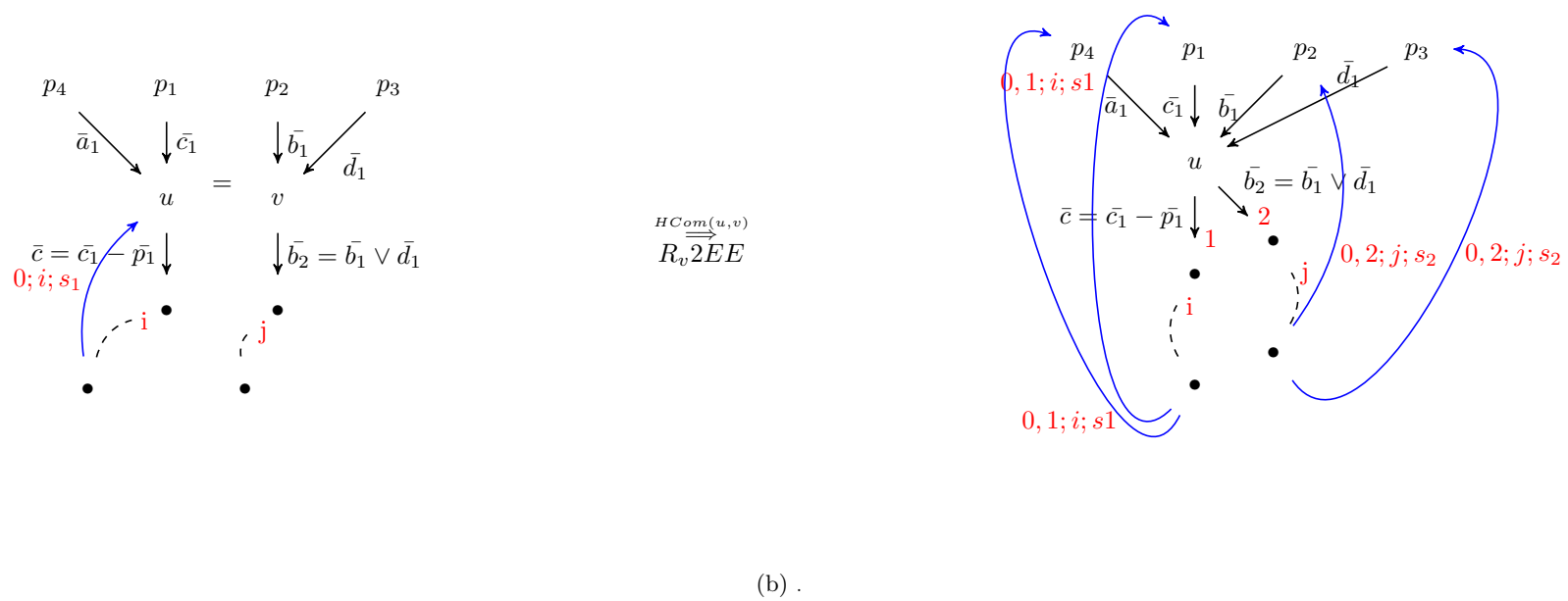
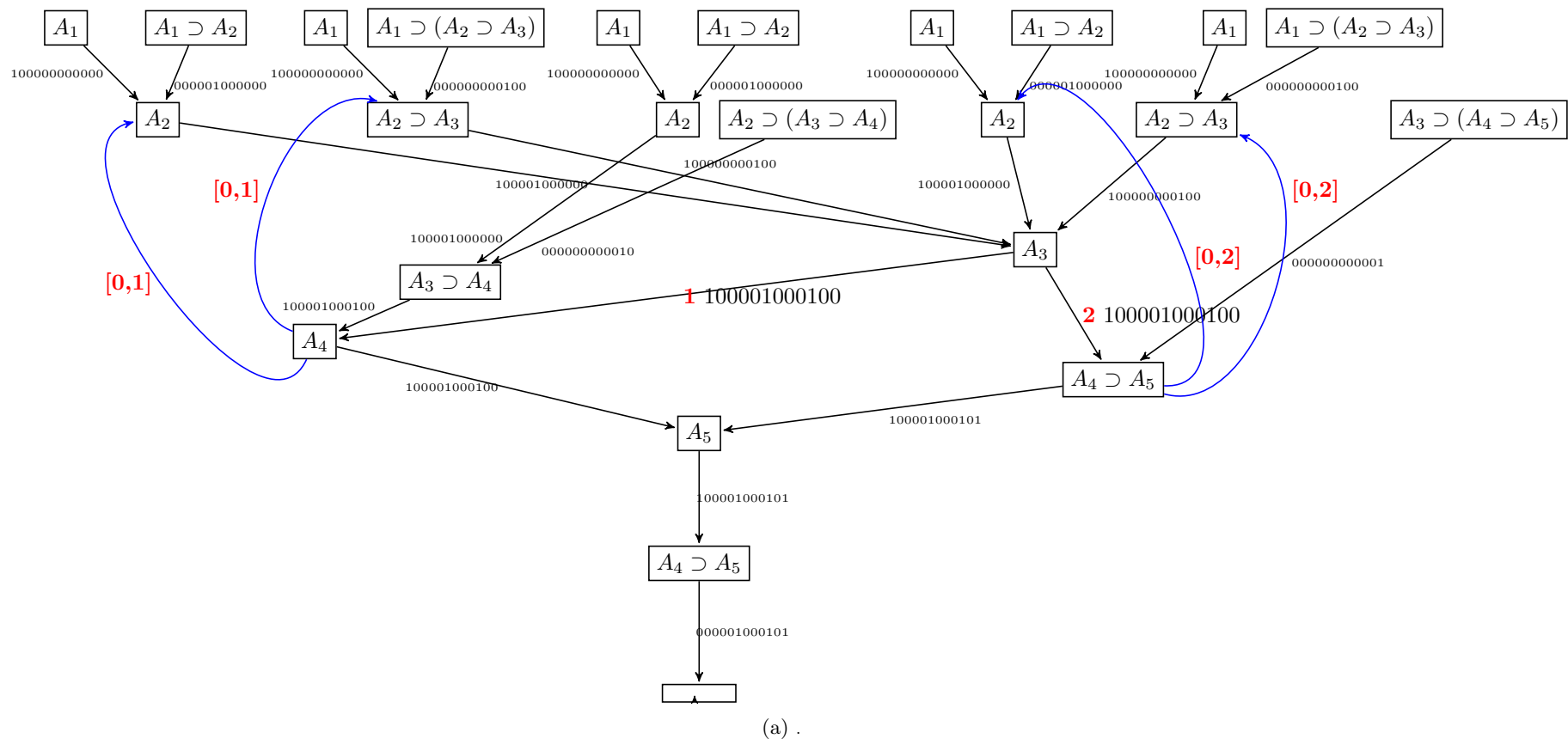


Figure 3: Second series of collapses (Part 1):  
 (a) Defocused **DLDS** at 2d;  
 (b) Compression Rule **R<sub>v</sub>2EE**;  
 (c) Compression Rule **R2XE**.

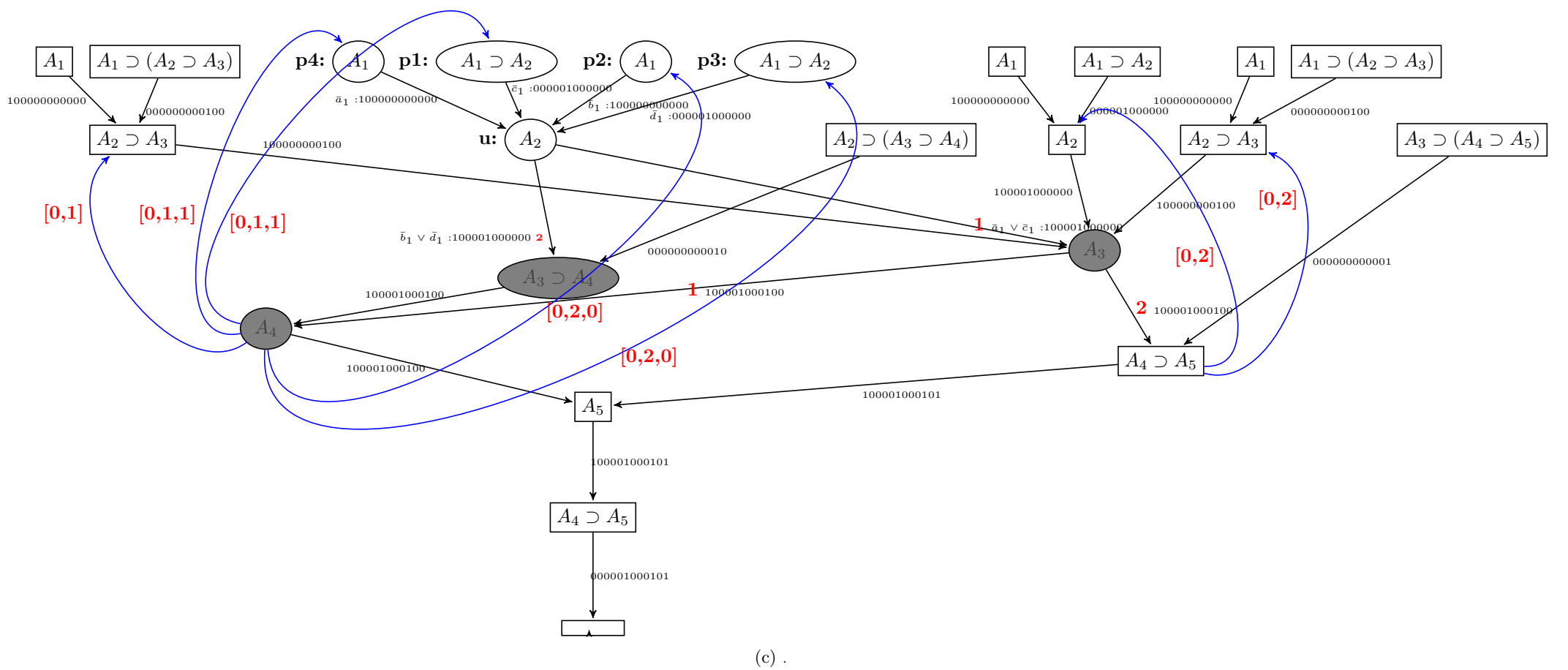
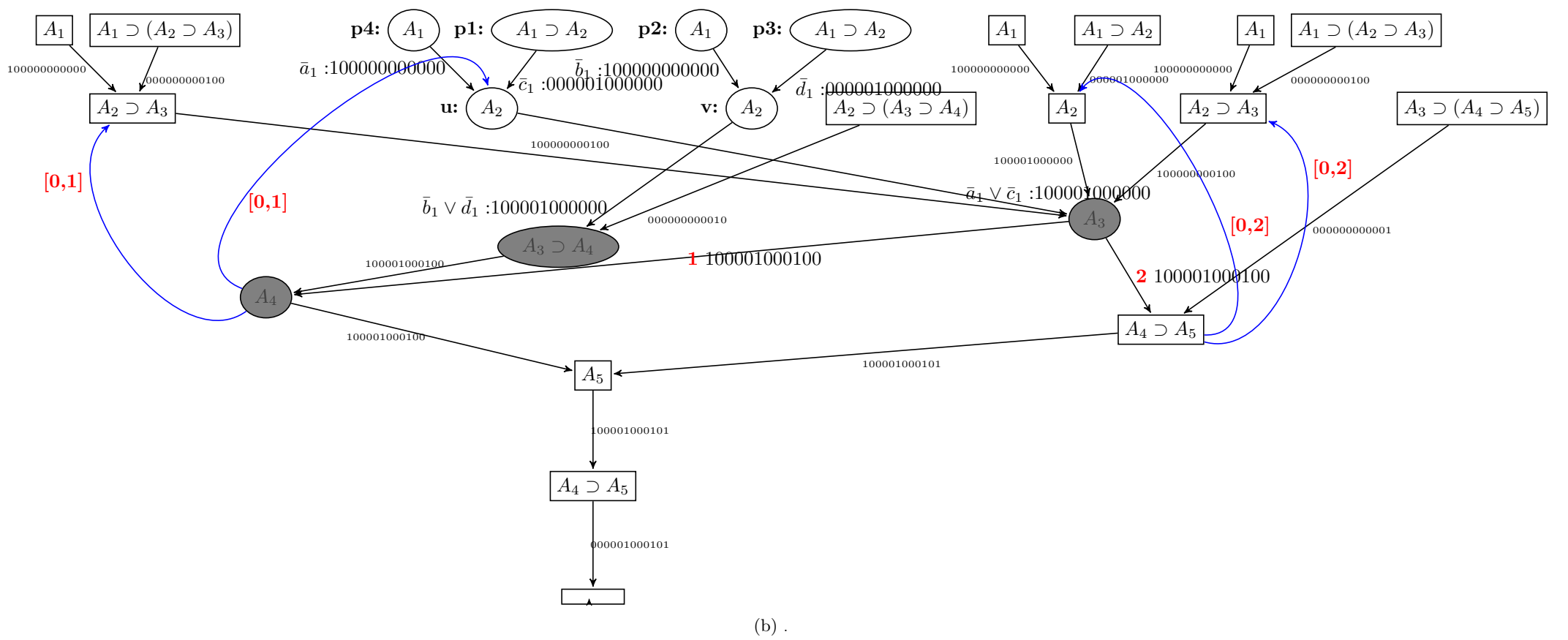
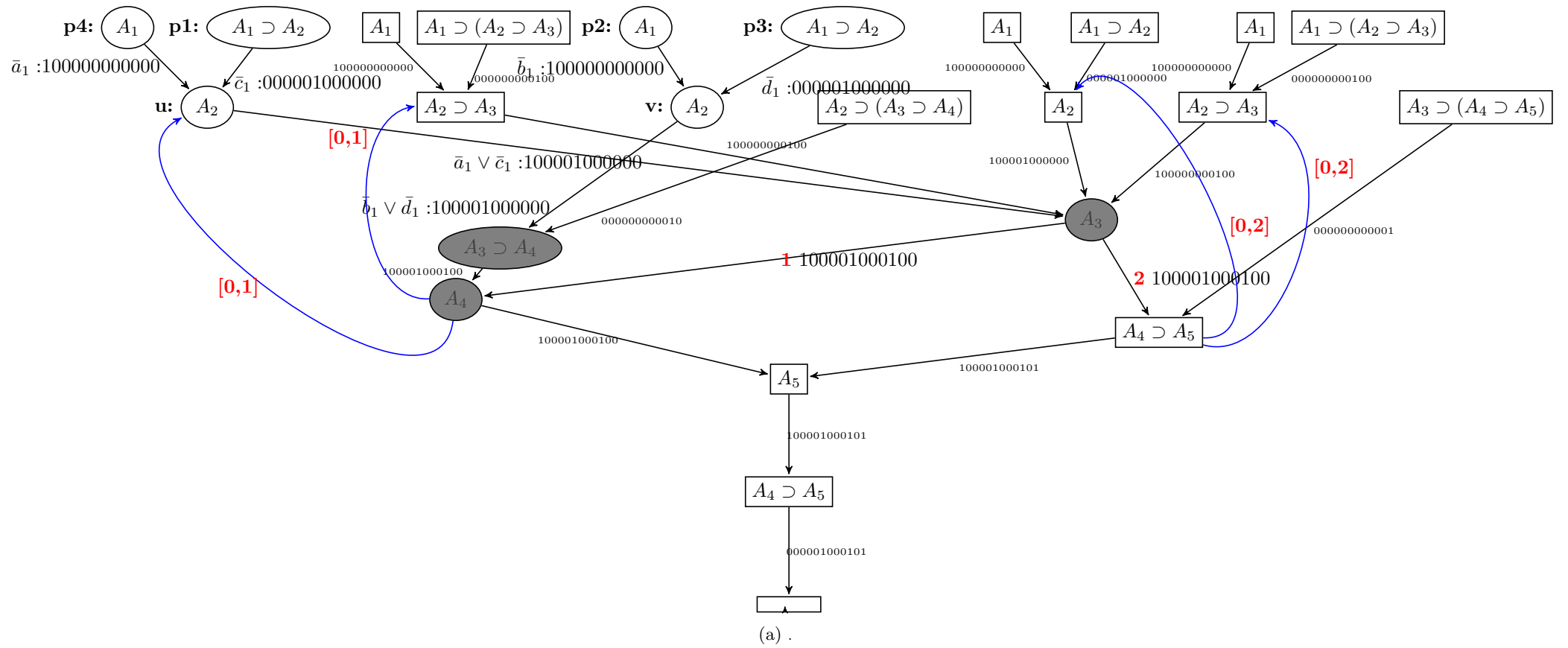


Figure 4: Second series of collapses (Part 2):  
(a) Matching of  $\mathbf{R_v2EE}$  to the  $\mathbf{DLDS}$  at 3a;  
(b) Rearrangement of the  $\mathbf{DLDS}$  at 4a;  
(c) Resulting  $\mathbf{DLDS}$  after applying  $\mathbf{R_v2EE}$  to the  $\mathbf{DLDS}$  at 4b.

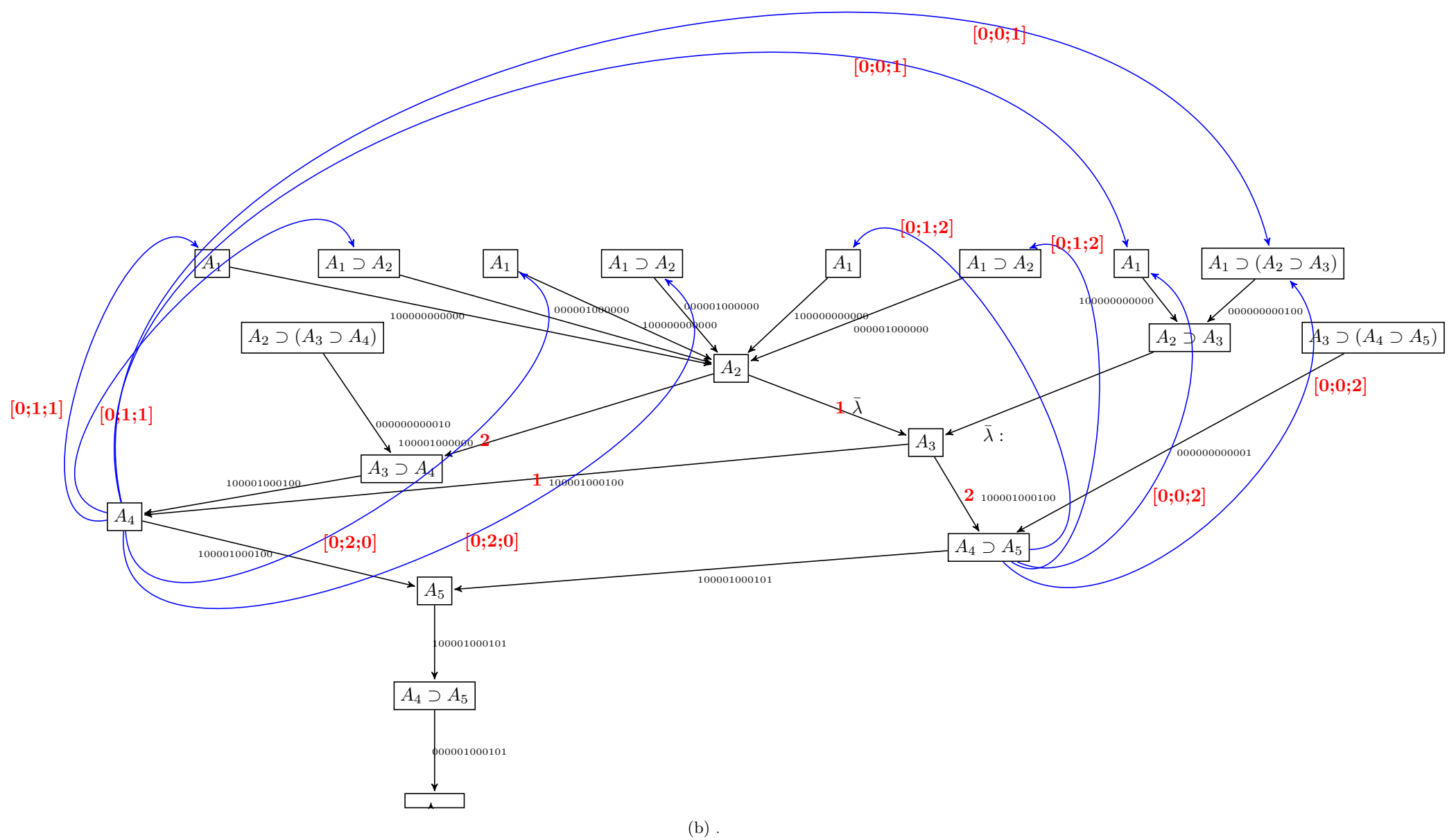
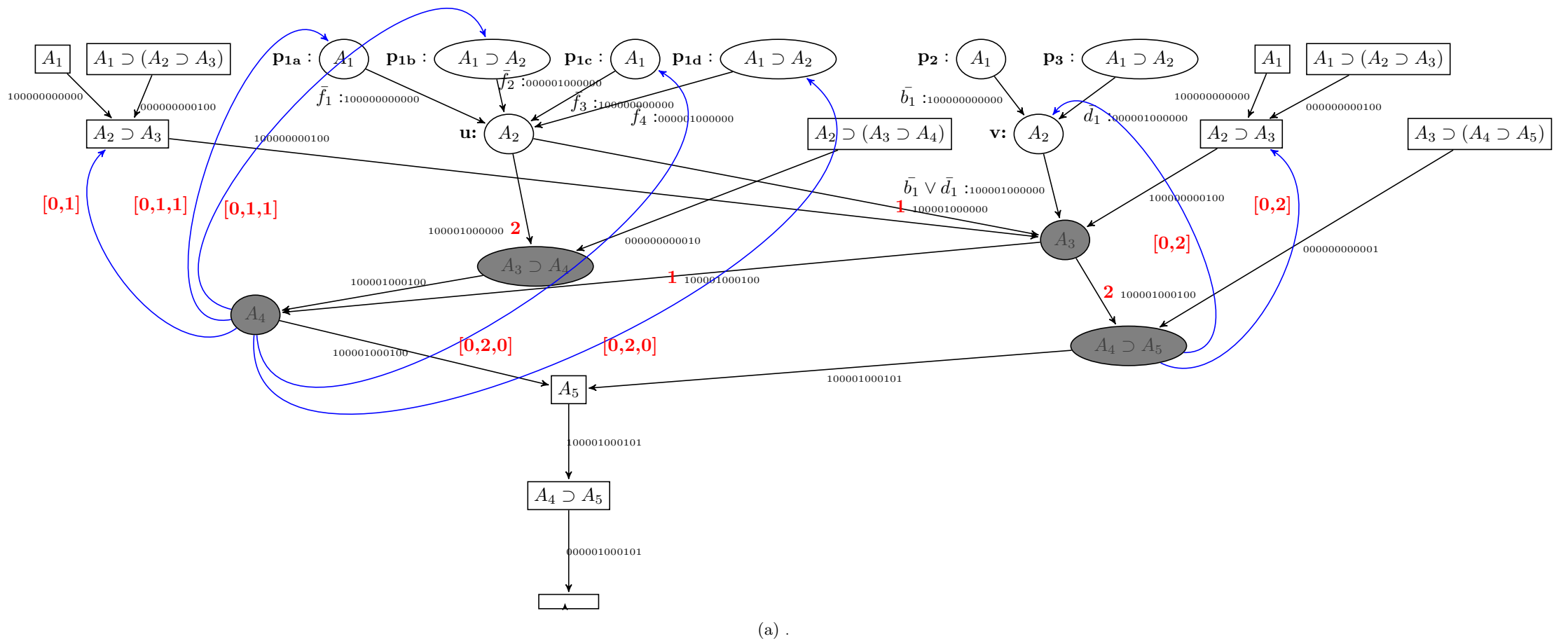


Figure 5: Second series of collapses (Part 3):  
(a) Matching of **R2XE** to the **DLDS** at 4c  
(b) Resulting **DLDS** after applying **R2XE** and **Re2EE**.