## Twisted Arrow Construction for Segal Spaces

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## Content

(1) Twisted Arrow Complete Segal Space

- Definition
- Segal Space
- Completeness Condition
(2) Left Fibration

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$D \longrightarrow D^{\prime}$
Composition


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W: \Delta^{O P} \times \Delta^{O P} \rightarrow \text { Set. }
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Hence,

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T w(W)_{n, l} \cong s S(F(2 n+1) \times \Delta[/], W) \cong W_{2 n+1, l}
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If $W$ is a Segal space, then $\operatorname{Tw}(W) \rightarrow W^{O P} \times W$ is a left fibration.
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(1) $\operatorname{Tw}(W) \rightarrow W^{O p} \times W$ is a Reedy fibration.
(2) $T w(W)$ is a Segal space and,


Hence the result follows from by [Ras17, Lemma 3.29].

