## Overview

Convolution (Filters)

Statistical Leaning
Gaussian Processes

## Simplicial Complex

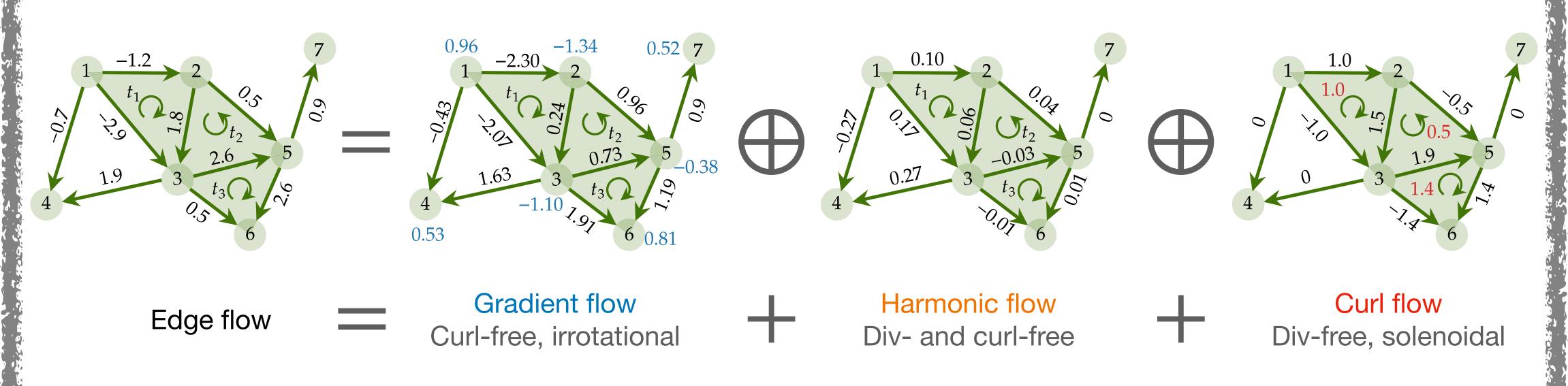
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Convolutional NNs

Generative learning (Distribution matching)

## Overview

## Hodge decomposition



$$\mathbb{R}^{N_1} = \operatorname{im}(\mathbf{B}_1^\mathsf{T}) \oplus \ker(\mathbf{L}_1) \oplus \operatorname{im}(\mathbf{B}_2)$$
$$\mathbf{f}_1 = \mathbf{f}_G + \mathbf{f}_H + \mathbf{f}_C$$

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