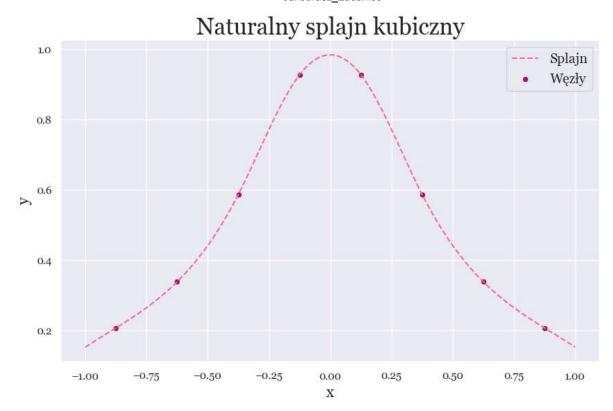
```
In [2]:
from scipy.interpolate import CubicSpline
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
from numpy import linspace
import warnings
warnings.filterwarnings("ignore") #ignorowanie ostrzeżeń seaborna
# Węzły i wartości funkcji
x_{values} = [-7/8, -5/8, -3/8, -1/8, 1/8, 3/8, 5/8, 7/8]
y values = [1/(1 + 5*x**2) for x in x values]
cs = CubicSpline(x_values, y_values)
x = linspace(-1, 1, 100)
y = cs(x)
#y2=1/(1 + 5*x**2)
#Rysowanie wykresu
sns.set_style("darkgrid", {"grid.color": "#ffffff"})
sns.set(font="Georgia")
plt.figure(figsize=(10, 6))
sns.set_palette(sns.color_palette("RdPu", 1))
sns.lineplot(x, y, linestyle='--')
#sns.lineplot(x, y2, linestyle='--')
sns.set_palette(sns.color_palette("RdPu", 3))
sns.scatterplot(x values, y values, label='Wezły', color= '#a2126a').set title(
plt.xlabel('x', fontsize=16)
plt.ylabel('y', fontsize=16)
plt.grid(True)
plt.legend(['Splajn', 'Wezly'], frameon=True, fontsize=14)
plt.show()
```



In [ ]: